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THE

WEEKLY WEATHER REPORT

OF THE

METEOROLOGICAL OFFICE

FOR THE YEAR

1897

(VOL. XIV.—THIRD SERIES)

CONTAINING

SYNOPTIC CHARTS,

AND

DESCRIPTIVE SUMMARIES OF THE WEATHER FOR EACH DAY;

ALSO

TABULAR SUMMARIES OF TEMPERATURE, RAINFALL, AND BRIGHT SUNSHINE, FOR EACH WEEK,

WITH MONTHLY SUPPLEMENTS AND TWO APPENDICES.

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1898.

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ERRATA.

MONTHLY SUMMARIES.

January, p. iv. ... ... Scarborough.—Maximum Temperature for month should be 46° on 1st.

Hereford.—Rainfall—16 days ; Total amount, 1·90 ins. ; difference from average, — 0·61 in. ; and date of absolute amount is 7th.

Douglas.—Rainfall—16 days ; total amount, 2·50 ins. ; difference from average, — 1·88 ins.

Edgeworthstown.—Rainfall—Total amount, 1·85 ins. ; difference from average, — 0·94 ins. ; and date of maximum fall in one day is 29th.

February, p. viii. ... Killarney.—Absolute maximum Temperature for month should be 57° on 22nd.

Hastings.—Rainfall—17 days ; total amount, 2·52 ins. ; difference from mean, + 0·50 in. Bright Sunshine—Total hours, 51·0 ; difference, — 32·8 ; percentage, 19 ; and difference, — 11.

March, p. xii. ... ... Scarborough.—Temperature—Absolute minimum Temperature, 28° on 30th ; and maximum, 60° on 22nd. Total Rainfall, 2·69 ins. ; difference, + 0·90 in. ; and maximum fall in one day, 0·49 in. on 2nd.

April, p. xvi. ... ... Londonderry.—Rainfall—20 day ; total amount, 2·29 ins. ; difference, + 0·12 in.

Edgeworthstown.—Rainfall—21 days ; total amount, 4·26 ins. ; difference, + 1·96 ins.

May, p. xx. ... ... Scarborough.—Total Rainfall, 1·11 ins. ; difference, — 0·85 in.

June, p. xxiv. ... ... Cheadle.—Absolute maximum Temperature is 79° on 13th.

July, p. xxviii. ... ... Alnwick Castle.—Rainfall—Date of maximum fall in one day is 20th.

Gilcrux.—Total Rainfall, 2·15 ins.

September, p. xxxvi. ... Killarney.—Temperature—Mean of minimum, 48°·1 ; of maximum, 61°·6 ; and mean of minimum and maximum, 54°·9 ; difference, — 0°·9.

October, p. xl. ... ... Edgeworthstown.—Rainfall—12 days ; total amount, 2·97 ins. ; difference, — 0·14 in.

Killarney.—Rainfall—total amount is 5·93.

November, p. xliv. ... Geldeston.—Rainfall—13 days ; total amount, 1·22 ins. ; and difference, — 1·43 ins.

Edgeworthstown.—Rainfall—15 days ; total amount, 4·14 ins. ; and difference, + 0·66 in

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PREFACE.

In the Weekly Weather Report for 1897 the general arrangement of the weekly Remarks and Tabular matter is unaltered, and will be found on the first and second pages of each Report. The Charts cover the same area as those for last year, viz.: nearly the whole of Europe and the greater part of the Mediterranean.

Monthly Summaries of the observations made at the stations included in the Daily and Weekly Weather Reports again appear as a Supplement.

Appendices I. and II. are published, as hitherto—the former with some slight modification since 1891.

The general arrangement of the Report is as follows :—

LIST OF DISTRICTS.

For the purposes of this Report the United Kingdom is divided into eleven Districts, which are shown on the accompanying map, distinguished by the numbers 0 to 10. The positions of the stations supplying information as to Temperature and Rainfall, and in some cases as to Bright Sunshine also, are marked on the map by black dots, and their names are given in the following list, arranged under the districts to which they belong :—

METEOROLOGICAL DISTRICTS.

0. SCOTLAND, N.—Sumburgh Head, Stornoway, Wick, Lairg, Glencarron, Fort Augustus, Fort William.

1. SCOTLAND, E.—Nairn, Aberdeen, Braemar, Ochtertyre, Leith, Marchmont.

2. ENGLAND, N.E.—Alnwick Castle, Durham, Shields, Scarborough, York, Spurn Head.

3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.

4. MIDLAND COUNTIES.—Bawtry, Loughborough, Stamford (Duddington), Cheadle, Shirley (near Solihull), Churchstoke, Hereford, Cirencester, Oxford.

5. ENGLAND, S.—London, North Foreland, Dungeness, Hastings, Southampton, Hurst Castle, Shaftesbury.

6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Glenlee, Gilerux, Douglas (Isle of Man).

7. ENGLAND, N.W.—Stonyhurst, Blackpool, Manchester (Prestwich), Liverpool Observatory (Bidston), Llandudno, Holyhead.

8. ENGLAND, S.W.—Llandovery, Pembroke, Clifton, Arlington, Cullompton, Falmouth, Plymouth, Prawle Point.

9. IRELAND, N.—Malin Head, Londonderry, Edenfel (Omagh), Belmullet, Markree Castle, Armagh, Donaghadee, Edgeworthstown.

10. IRELAND, S.—Dublin, Parsonstown, Kilkenny, Roche's Point, Valencia, Killarney, Foynes.

There are in addition two stations in the Channel Islands, viz., Scilly (St. Mary's), and Jersey (St. Aubin's), which cannot be conveniently placed in any of the Districts. Records from additional stations which supply Sunshine only, are given on the ~~fourth~~ sixth page of each Report.

WEEKLY SUMMARY.

The Summary on the first page of each Report gives for each week and district the absolute *maximum* and *minimum* temperatures observed, the averages of both the daily extremes, the daily average, and its difference from the mean of the corresponding period, as derived from observations of the 25 years 1871-95, together with the values for "Accumulated" temperature above and below 42° F.

Daily Mean Temperature.

The daily mean Temperature shown in the Tables is calculated from the mean between the daily maxima and minima, due regard being had for the varying relation found to subsist, from month to month, between the true mean temperature of the day derived from 24 hourly observations, and the means of the daily maxima and minima for a series of years, as recorded at Greenwich and the self-registering Observatories of the Meteorological Council.

The approximate Mean Daily Temperature for any week is found by multiplying the *difference* between the means of the seven observed maxima and minima by the proper coefficient for the month (shown in the following Table), and adding the product to the mean of the minima :—

Months.	Coefficient.
January. December.	0·520
February. November.	0·500
March. October.	0·485
April. September.	0·476
May. August.	0·470
June. July.	0·465

Example :

	°
The mean maximum temperature for a week in December being	48·1
The mean minimum	39·3
The difference is	8·8

This difference 8·8 × ·520 (the coefficient for December) = 4·6.

This value when added to the mean minimum (39·3) gives 43°·9, the required mean daily temperature of the week.

Accumulated Temperature.

The Tables of Accumulated Temperature are designed to give persons engaged in agriculture better means of estimating the manner in which vegetation is affected by temperature than that afforded by the more usual methods of treating the readings of the thermometer. They show for each week, and for the whole period from the commencement of the year, the weekly and progressive values, respectively, of the combined amount and duration of the excess or defect of the air temperature, above or below a suitably fixed standard, or *base temperature*. The base adopted is 42° F., as being nearly equivalent to 6° C. This has been

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considered by Continental writers on these subjects to be the critical value, the temperature above which is mainly effectual in starting and maintaining the growth, and in completing the ripening, of agricultural crops in a European climate. This base is also convenient as being 10° F. above the freezing point on the Fahrenheit scale.

The Accumulated Temperature is expressed in "Day-degrees,"—a Day-degree signifying 1° F. of excess or defect of temperature above or below 42° F. continued for 24 hours, or any other number of degrees for an inversely proportional number of hours.

When the temperature during any period remains either wholly above or below the base temperature, the difference between the base and the mean temperature gives the correct accumulated temperature. In other cases this difference gives only an approximate value for the accumulated temperature, not departing greatly from the truth—the deviation depending on the greater or less extent of the variations of the temperature above or below the base. Further, since the mean between the maximum and minimum of any day is nearly equal to the mean temperature of the day, the difference of the mean of the maximum and minimum from the base will also give, directly, an approximation to the accumulated temperature for the day.

The following rules, however, supply a still closer approximation to the true values sought, and they have been adopted for the preparation of the Tables in this Report. They may be applied to any other base temperature as well as to 42° F., with the slight modification of the numerical coefficients mentioned below.

RULES for computing, for a WEEKLY PERIOD, from the observed MAXIMA and MINIMA, the ACCUMULATED TEMPERATURE above or below 42° F.

1. Obtain the mean temperature, from the means of the seven observed maxima and minima, in the manner already described for daily values.

2. In obtaining the accumulated temperature four cases may occur, to which the following rules will apply :—

Conditions of Temperature.	To obtain the daily Accumulated Temperature.	
	Above 42° F.	Below 42° F.
If the minimum is *above* 42° F. or *equal* to 42° F. -	Subtract 42° F. from the mean.	There is none.
If the minimum is *below* 42° F., but the mean for the day is *above* 42° F.	From the difference between the mean for the day and the minimum deduct the accumulated temperature below 42° F., calculated as stated in the next column.	The required quantity is the excess of 42° F. over the minimum, multiplied by the co-efficient 0·4.
If the mean for the day is *below* 42° F., but the maximum is *above* 42° F.	The required quantity is the excess of the maximum over 42° F., multiplied by the co-efficient 0·4.	From the difference between the mean for the day and the minimum deduct the accumulated temperature above 42° F., calculated as stated in the preceding column.
If the maximum is *below* 42° F. or *equal* to 42° F. -	There is none.	Subtract the mean from 42° F.

In each of the above cases the result will be the *average daily* value, and must be multiplied by 7 in order to obtain the value for the whole week.

The coefficient varies with the duration of the period, and also with the base temperature.

The coefficient given above, in Rules 2 and 3, is for a weekly period, and for the base temperature 42° F. The following are its values for other base temperatures,—for 32° F., 0·4; for 52° F., 0·33; for 62° F., 0·25.

A full explanation of the principles on which these rules are based will be found in Appendix II. to the Quarterly Weather Report for 1878.

RAINFALL.

The Summary on the first page of each Report gives for each week and each District the number of rainy days, and the total fall of rain, as well as the progressive values reckoned from the commencement of the year, and the difference between these amounts and the means for the corresponding week in the 30 years 1866–95.

BRIGHT SUNSHINE.

The Summary on the first page gives for each week and each District the numbers of hours of sunshine recorded, and the percentage of that time to the whole time during which the sun is above the horizon; also the progressive values reckoned from the commencement of the year, together with the difference between them and the mean for the corresponding period in the 15 years 1881 to 1895.

SUPPLEMENT AND APPENDICES.

Supplement.—Consists of twelve Summaries of the results of the Observations made at the Stations included in the Daily and Weekly Weather Reports during each of the Calendar months. Each Summary is illustrated by a lithographed plate showing the distribution of Pressure, Air Temperature, and Rainfall during the month, and the prevalence of wind from various quarters.

Appendix I.—This contains (1) Summaries for each Quarter and for the whole year, of the Temperature and Rainfall records for each District, from 1866 to 1897, and (2) Tables giving for each district the monthly values for Rainfall, Accumulated Temperature (above and below 42° F.), and Bright Sunshine, as well as the progressive values for each from the commencement of the year, in continuation of the values given in Appendix I. for last year.

Appendix II. gives for the year 1897, and for each District, the weekly and progressive numbers of Rainy days, the Amounts of Rainfall, and the values for Accumulated Temperature (above and below 42° F.), and Bright Sunshine, in continuation of the values for the year 1896 printed in Appendix II. to the Weekly Weather Report for last year.

Tables showing for each degree of Latitude from 49° N. to 58° N., and for each Weekly and Monthly period, the total numbers of hours during which the Sun is above the Horizon, together with their Reciprocals, are given in the Preface to Vol. I., Second Series.

REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES, IN ADDITION TO THOSE ALREADY PUBLISHED ON THE ~~FOURTH~~ sixth PAGE OF SOME OF THE WEEKLY REPORTS.

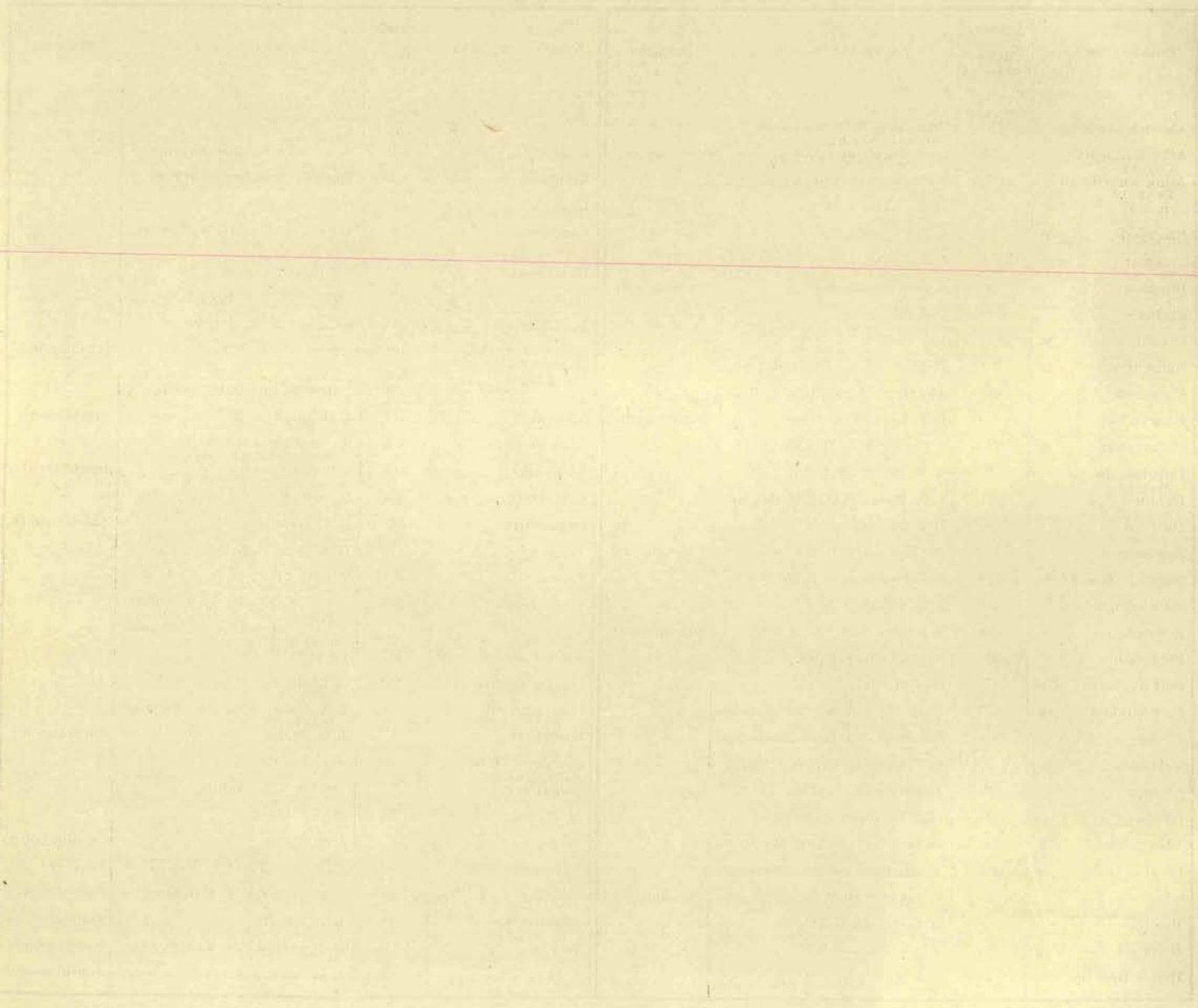
For week ending January 1, 1898:—Colwyn Bay—Bright Sunshine, 8·8 hrs.; percentage, 17.

THE following is a LIST of the OBSERVERS who have furnished Information voluntarily for Publication in the WEEKLY WEATHER REPORT, 1897, together with the NAMES of their STATIONS and their ALTITUDE above the MEAN SEA LEVEL:—

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Remarks.
	Feet.		
Alnwick Castle –	210	Humphrey J. Willyams, for the Duke of Northumberland, K.G.	
Arley Cottage (Co. Cavan).	225	Lord Farnham, F.R.A.S. – –	Sunshine only.
Arlington (North Devon).	613	W. Stewart, for Lady Chichester.	
Armagh – –	207	Staff of Observatory.	
Blackpool – – ℳ	31	A. J. Anderson.	
Braemar – – $	1,114	J. A. Aitken, J.P.	
Brighton – –	65	A. Newsholme, M.D. – – –	Sunshine only.
Clifton – – –	230	D. Rintoul.	
Cheadle – – ℳ	646	J. C. Philips.	
Churchstoke – ℳ	539	P. Wright, F.C.S., F. R. Met. Soc.	
Cirencester – –	446	The Royal Agricultural College.	
Colwyn Bay –	?	R. E. Lord, M.D., B.Sc. – –	Sunshine only.
Cullompton – – ℳ	202	J. Turner, F. R. Met. Soc.	
Douglas, Isle of Man.	137	A. W. Moore, M.A., J.P.	
Dublin – – –	51	J. W. Moore, M.D., F. R. Met. Soc.	
Durham – –	335	H. J. Carpenter.	
Eastbourne – –	120	R. Sheward, F. R. Met. Soc. –	Sunshine only.
Edenfel (Omagh)–	300	Col. Buchanan, F. R. Met. Soc.	
Edgeworthstown	265	J. M. Wilson, J.P.	
Edinburgh – –	262	R. C. Mossman – – – –	Sunshine only.
Falmouth – –	210	Staff of Observatory.	
Fort Augustus – $	75	Rev. M. Wall.	
Fort William – $	37	R. T. Omond, for Directors of Observatory.	
Foynes – – –	108	W. Ward, for Lord Monteagle, K.P.	
Geldeston – –	37	E. T. Dowson, F. R. Met. Soc.	
Gilcrux – –	261	J. Monkhouse.	
Glasgow – –	184	Staff of Observatory.	
Glencarron – – $	504	D. D. Munro, for Lord Maclaren.	
Glenlee – – $	230	W. Melville, for Prince Smith.	
Guernsey – –	222	F. E. Carey, M.D., F. R. Met. Soc.	Sunshine only.
Hastings – –	116	H. Colborne, M.R.C.S.	
Hereford – – ℳ	274	T. A. Chapman, M.D.	
Hesley Hall, Bawtry	65	B. J. Whitaker.	

Names of Stations.	Altitude above Mean Sea Level.	Names of Observers.	Remarks.
	Feet.		
Hillington – – ℳ	88	Rev. H. E. B. Ffolkes, M.A., F. R. Met. Soc.	
Kilkenny – –	212	H. Carlton, for the Marquis of Ormonde, K.P.	
Killarney – –	110	The Ven. Archdeacon Wynne.	
Lairg – – –	? 335	D. Macrae, B.D.	
Laudale – –	14	A. Fletcher, for T. G. H. Newton, M.A., F. R. Met. Soc.	
Llandovery – –	217	J. Watkins, F. R. Met. Soc.	
Llandudno – – ℳ	79	J. Nicol, M.D., F. R. Met. Soc.	
Londonderry –	93	J. Conroy, F. R. Met. Soc.	
Manchester (Oldham Rd.)	190	J. Niven, M.A., M.B. – – –	Sunshine only.
Marchmont – – $	500	P. Loney and J. S. Wood, for Sir H. P. Campbell, Bt.	
Margate – –	134	J. Stokes, F. R. Met. Soc. – –	Sunshine only
Markree Castle –	131	A. Marth, F.R.A.S., for Col. Cooper, F.R.A.S.	
Newquay – –	200	J. Pearce – – – – –	Sunshine only.
Ochtertyre – – $	333	G. Croucher.	
Oswaldkirk – –	510	R. Thompson – – – –	Sunshine only.
Plymouth – –	125	H. Victor Prigg.	
Prestwich – –	294	T. R. H. Clunn, M.D., F. R. Met. Soc.	
Rothamsted– –	368	Sir J. B. Lawes, Bart., LL.D., F.R.S., Sir J. H. Gilbert, Ph. D., F.R.S., and T. Wilson, F. R. Met. Soc.	
Scarborough – ℳ	157	Dr. H. G. H. Monk.	
Shirley (Solihull)	460	B. Boothroyd.	
Southampton –	74	J. T. Cook, R.E., the Ordnance Survey Office.	
Southport – –	?	J. Baxendell– – – – –	Sunshine only.
Stamford (Duddington).	152	F. Coventry.	
Stonyhurst – –	360	Staff of Observatory.	
Shaftesbury– –	722	Miss L. Wand.	
Tenby – – –	?	J. E. Gower – – – – –	Sunshine only.
Thurcaston – –	253	Rev. T. A. Preston, M.A., F. R. Met. Soc.	Sunshine only.
Torquay – –	286	A. Chandler, F. R. Met. Soc. –	Sunshine only.
Westbourne– –	30	L. B. Birkett – – – –	Sunshine only.
Worksop – –	112	H. Mellish, J.P., F. R. Met. Soc. –	Sunshine only.
York – – –	105	J. E. Clark, B.A. – – – –	Sunshine only.

Stations marked "ℳ" report through the Royal Meteorological Society; those marked "$" through the Scottish Meteorological Society.
NOTE.—In cases where "Sunshine only" is received the altitudes quoted were those of the Recorders, not of the ground.
Shaftesbury took the place of Stowell in April, 1897.



WEEKLY WEATHER REPORT.

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VOL. XIV. No. 1.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 9TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 2.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	28	43·1	36·2	39·7	2 above	3	− 2	21	−21	3	− 2	21	−21
	1. SCOTLAND, EAST	48	26	41·3	34·6	38·1	2 above	0	− 6	27	−16	0	− 6	27	−16
	2. ENGLAND, N.E.	43	27	39·8	34·0	37·1	0 (average)	0	− 6	34	− 5	0	− 6	34	− 5
	3. ENGLAND, EAST	48	23	41·2	33·2	37·3	0 (average)	0	− 7	33	−12	0	− 7	33	−12
	4. MIDLAND COUNTIES	50	22	40·3	32·9	36·7	0 (average)	0	− 8	37	− 8	0	− 8	37	− 8
	5. ENGLAND, SOUTH	51	29	45·0	37·8	41·6	3 above	8	− 3	18	−13	8	− 3	18	−18
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	50	30	43·2	37·2	40·3	1 above	3	− 6	18	−13	3	− 6	18	−13
	7. ENGLAND, N.W.	50	30	42·4	35·8	39·2	0 (average)	1	− 7	23	−10	1	− 7	23	−10
	8. ENGLAND, S.W.	50	24	46·0	39·5	42·9	2 above	17	+ 3	7	−20	17	+ 3	7	−20
	9. IRELAND, NORTH	51	27	44·4	36·4	40·6	1 above	7	− 4	23	− 5	7	− 4	23	− 5
	10. IRELAND, SOUTH	53	27	46·6	38·0	42·5	1 above	20	+ 3	11	−12	20	+ 3	11	−12
	—CHANNEL ISLANDS	52	37	49·4	42·7	46·2	2 above	29	+ 6	0	−11	29	+ 6	0	−11

Rainfall.

	DISTRICTS. (See p. 2.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	4	9 less	3	− 2	0·4	− 0·9
	1. SCOTLAND, EAST	4	5	1 less	4	+ 1	0·5	− 0·1
	2. ENGLAND, N.E.	5	7	3 more	5	+ 1	0·7	+ 0·3
	3 ENGLAND, EAST	5	10	6 more	5	+ 1	1·0	+ 0·6
	4. MIDLAND COUNTIES	6	13	8 more	6	+ 3	1·3	+ 0·8
	5. ENGLAND, SOUTH	5	13	6 more	5	+ 2	1·3	+ 0·6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	10	2 less	5	+ 1	1·0	− 0·2
	7. ENGLAND, N.W.	6	6	1 less	6	+ 2	0·6	− 0·1
	8. ENGLAND, S.W.	7	15	6 more	7	+ 3	1·5	+ 0·6
	9. IRELAND, NORTH	6	7	1 less	6	+ 2	0·7	− 0·1
	10. IRELAND, SOUTH	6	16	7 more	6	+ 2	1·6	+ 0·7
	—CHANNEL ISLANDS	6	13	8 more	6	+ 1	1·5	+ 0·8

Bright Sunshine.

	DISTRICTS. (See p. 2.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	0	11	0	5	0	11	0
	1. SCOTLAND, EAST	3	− 4	6	−10	3	− 4	6	− 10
	2. ENGLAND, N.E.	1	− 7	1	−14	1	− 7	1	− 14
	3 ENGLAND, EAST	3	− 7	6	−14	3	− 7	6	− 14
	4. MIDLAND COUNTIES	2	− 7	3	−15	2	− 7	3	− 15
	5. ENGLAND, SOUTH	5	− 6	9	−11	5	− 6	9	− 11
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	− 5	6	− 9	3	− 5	6	− 9
	7. ENGLAND, N.W.	1	− 8	3	−12	1	− 8	3	− 12
	8. ENGLAND, S.W.	5	− 7	9	−12	5	− 7	9	− 12
	9. IRELAND, NORTH	7	− 3	13	− 6	7	− 3	13	− 6
	10. IRELAND, SOUTH	10	− 2	18	− 5	10	− 2	18	− 5
	—CHANNEL ISLANDS	9	− 4	15	− 8	9	− 4	15	− 8

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, and the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was very dull, unsettled, and rainy generally, the rain being heavy over the greater part of England and the south of Ireland. Falls of sleet or snow occurred on Saturday at many of our northern and north-eastern and eastern stations.

Temperature was rather above the mean in most parts of the Kingdom, but was just equal to it in several of the English districts. The highest of the maxima, which were recorded, as a rule, during the middle of the week, ranged from 53° in Ireland S., and from 51° or 50° in most other districts, to 43° in England N.E. The lowest of the minima were recorded on rather irregular dates, but mostly on January 3rd over England. They ranged from 22° in the Midland counties, 23° in England E., and 24° in England S.W., to 30° in Scotland W. and England N.W., and to 37° in the Channel Islands.

Rainfall exceeded the mean in nearly all parts of England, in Ireland S., and the Channel Islands, but was less than the normal in Scotland, England N.W., and Ireland N. In most of the English districts the excess was large.

Bright Sunshine was very deficient in almost all parts of the Kingdom, the percentage of the possible duration ranging from 18 in Ireland S., and 15 in the Channel Islands, to 3 in the Midland counties and England N.W., and to 1 in England N.E.

Barometer and Wind.—During the whole of this period the distribution of pressure was anticyclonic to the eastward or north-eastward of our Islands, while depressions appeared off our west and south-west coasts. Some of these disturbances were rather deep, and caused strong gales from the Eastward or South-Eastward on all but our southern coasts. In the north-east of Scotland the gale was very persistent, blowing almost without intermission from Wednesday until Saturday.

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II.—DATA from which the SUMMARY on page 1 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches				
0. SCOTLAND, N.	Sumburgh Head	45	34	42·1	39·0	40·6	+ 1·5	0	11	5	0·15	−0·75	*	*	*	*
	Stornoway	48	32	43·0	35·9	39·2	+ 0·6	3	20	4	0·42	−0·80	3·1	− 3·0	7	− 7
	Wick	45	35	42·6	38·3	40·5	+ 3·0	2	14	3	0·24	−0·35	*	*	*	*
	Lairg ℌ	47	28	42·1	33·5	38·0	+ 1·8	0	31	5	0·18	−0·64	*	*	*	*
	Glencarron ℌ	49	28	42·4	32·7	37·7	+ 0·7	1	34	3	0·48	−1·79	*	*	*	*
	Fort Augustus ℌ	51	30	44·6	36·0	40·5	+ 2·4	7	24	2	0·25	−0·93	9·1	+ 6·0	19	+12
	Fort William ℌ	51	30	44·9	37·7	41·4	+ 2·8	8	18	2	0·82	−1·34	3·5	− 0·9	7	− 2
1. SCOTLAND, E.	Nairn	47	28	42·7	34·3	38·7	+ 1·5	2	29	0	—	−0·46	*	*	*	*
	Aberdeen	44	33	41·6	36·9	39·3	+ 3·0	0	19	6	0·37	−0·21	3·2	− 7·1	7	−15
	Braemar ℌ	45	26	39·9	31·1	35·7	+ 1·5	0	44	6	0·74	+0·03	3·7†	− 0·9†	8†	− 2†
	Ochtertyre ℌ	45	28	40·4	34·0	37·3	+ 1·1	0	33	6	1·42	+0·34	*	*	*	*
	Leith	48	35	43·4	37·7	40·7	+ 1·9	4	17	3	0·14	−0·24	*	*	*	*
	Marchmont ℌ	42	28	39·7	33·3	36·6	+ 0·6	0	38	5	0·59	−0·01	0·0	− 8·4	0	−18
2. ENGLAND, N.E.	Alnwick Castle	42	27	39·8	33·7	36·9	− 0·4	0	36	5	0·92	+0·40	*	*	*	*
	Durham	41	27	38·7	33·0	36·0	− 0·5	0	42	5	0·69	+0·19	0·0	−10·0	0	−19
	Shields	43	30	40·6	34·3	37·6	− 0·5	0	31	5	0·74	+0·34	*	*	*	*
	Scarborough ℳ	42	30	39·7	34·4	37·2	− 0·9	0	34	3	0·43	−0·07	*	*	*	*
	York	43	29	39·9	33·4	36·8	− 0·2	0	36	6	0·72	+0·31	1·4	− 5·2	3	− 8
	Spurn Head	41	33	40·0	35·4	37·8	− 0·1	0	29	4	0·78	+0·45	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	44	31	39·5	33·6	36·7	+ 0·5	0	37	4	0·70	+0·23	1·8	− 7·9	3	−15
	Yarmouth	41	31	40·4	34·0	37·3	+ 0·2	0	33	6	0·87	+0·39	*	*	*	*
	Geldeston	44	30	41·5	34·1	38·0	+ 0·3	0	28	6	1·06	+0·68	7·5	− 3·8	14	− 7
	Cambridge	48	23	42·3	31·6	37·2	+ 0·3	1	38	5	1·05	+0·72	3·0	− 6·8	6	−15
	Rothamsted	44	24	42·2	32·5	37·5	+ 0·8	1	34	6	1·27	+0·73	0·1	− 9·7	0	−19
4. MIDLAND COUNTIES	Harrogate ℳ	40	23	37·5	32·3	35·0	− 1·0	0	49	6	1·14	?	0·0	?	0	?
	Bawtry (Hesley Hall)	41	26	38·7	31·6	35·3	− 1·7	0	47	6	1·71	+1·31	*	*	*	*
	Loughborough	42	25	39·9	33·0	36·6	− 0·5	0	38	6	1·31	+0·87	*	*	*	*
	Stamford (Duddington)	44	22	40·1	31·7	36·1	− 0·1	0	41	6	1·37	+0·96	*	*	*	*
	Cheadle ℳ	40	28	38·6	32·1	35·5	− 0·7	0	46	6	1·14	+0·52	*	*	*	*
	Shirley (near Solihull)	45	29	40·0	33·3	36·8	− 0·2	0	36	5	1·43	?	*	*	*	*
	Churchstoke ℳ	45	26	40·8	34·2	37·6	+ 0·4	0	31	7	1·22	+0·60	0·9	− 8·5	2	−16
	Hereford ℳ	49	23	41·4	31·8	36·8	− 1·2	0	36	7	1·31	+0·79	*	*	*	*
	Cirencester	50	25	42·9	34·1	38·7	+ 1·7	3	30	6	1·32	+0·68	1·3	−10·3	2	−19
	Oxford	50	24	42·9	34·6	38·9	+ 0·9	3	28	5	1·12	+0·65	4·3	− 6·4	8	−11
5. ENGLAND, S.	London	47	29	44·9	37·0	41·1	+ 2·6	8	21	6	1·32	+0·86	0·6†	− 4·9†	1†	− 9†
	North Foreland	45	34	42·4	36·6	39·6	+ 1·0	1	20	5	0·98	?	*	*	*	*
	Dungeness	47	33	44·4	38·1	41·4	+ 2·3	7	16	5	0·76	+0·22	*	*	*	*
	Hastings (St. Leonards)	48	36	46·1	39·5	42·9	+ 3·6	17	7	4	1·14	+0·53	3·6	− 9·9	7	−18
	Southampton	51	36	46·4	39·7	43·2	+ 4·1	18	6	6	1·67	+0·97	3·9	− 7·3	7	−14
	Hurst Castle	50	30	47·0	39·9	43·6	+ 3·6	20	6	6	1·36	+0·74	*	*	*	*
	Stowell ℳ	47	22	44·1	34·0	39·3	+ 1·3	6	31	6	1·54	+0·82	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	50	50	45·0	38·3	41·8	+ 2·7	8	16	3	0·83	−1·15	*	*	*	*
	Glasgow	45	31	42·2	36·9	39·7	+ 1·7	1	19	5	0·85	+0·03	2·6	− 2·2	5	− 5
	Ardrossan	46	35	42·3	37·9	40·2	− 0·7	1	15	4	0·38	−0·44	*	*	*	*
	Glenlee ℌ	44	32	41·8	36·1	39·1	+ 1·9	0	20	5	2·00	+0·40	*	*	*	*
	Douglas (Isle of Man)	47	32	44·5	36·8	40·9	+ 0·5	7	22	7	1·12	+0·14	3·4	− 6·9	7	−13
7. ENGLAND, N.W	Stonyhurst	42	32	39·8	35·0	37·5	+ 0·3	9	32	7	0·56	−0·36	0·8	− 7·5	2	−13
	Blackpool ℳ	44	30	41·7	34·1	38·1	+ 0·2	0	27	5	0·36	−0·26	0·0	− 8·4	0	−15
	Manchester (Prestwich)	48	31	43·8	34·7	39·4	+ 2·2	5	28	7	0·94	+0·23	0·0	?	0	?
	Liverpool Obsy. (Bidston)	45	30	41·4	34·6	38·1	− 1·1	0	27	4	0·47	0·00	*	*	*	*
	Llandudno ℳ	50	33	43·5	37·1	40·4	− 0·7	4	19	6	0·47	−0·13	*	*	*	*
	Holyhead	47	35	43·9	39·3	41·7	− 0·4	5	11	7	0·69	−0·08	*	*	*	*
8. ENGLAND, S.W.	Llandovery	49	24	44·7	36·0	40·5	+ 2·5	8	24	7	1·15	+0·01	*	*	*	*
	Pembroke	48	38	46·0	41·3	43·9	+ 1·1	15	1	6	1·40	+0·58	10·3	− 1·0	19	− 1
	Clifton	47	32	43·7	37·5	40·7	+ 1·5	5	18	6	1·11	+0·39	*	*	*	*
	Arlington (N. Devon)	47	33	44·6	37·6	41·2	+ 1·2	7	18	7	1·20	+0·10	*	*	*	*
	Cullompton ℳ	48	27	45·4	37·0	41·4	+ 2·2	10	21	7	1·44	+0·69	0·1	− 9·7	0	−17
	Falmouth	49	40	48·4	42·9	45·8	+ 2·3	27	0	7	1·93	+0·73	8·6	− 3·4	15	− 7
	Plymouth	50	37	48·2	41·0	44·7	+ 2·9	23	3	7	2·02	+1·20	2·2	− 8·7	4	−15
	Prawle Point	48	41	47·0	42·6	44·9	+ 3·1	20	0	7	1·42	+0·72	*	*	*	*
9. IRELAND, N.	Malin Head	49	35	44·4	38·4	41·5	+ 0·4	7	15	3	0·11	?	*	*	*	*
	Londonderry	48	33	43·3	37·5	40·5	+ 0·8	4	17	5	0·41	−0·46	*	*	*	*
	Edenfel (Omagh)	46	32	42·0	36·4	39·3	+ 1·9	0	19	6	0·62	−0·15	*	*	*	*
	Belmullet	50	33	45·4	38·1	41·9	− 0·4	10	17	5	1·24	+0·04	*	*	*	*
	Markree Castle	49	31	44·6	36·7	40·8	+ 1·6	7	21	6	0·53	−0·37	8·3	+ 0·1	16	0
	Armagh	51	28	47·1	35·9	41·7	+ 3·4	14	26	7	0·98	+0·31	5·1	− 4·5	10	− 9
	Donaghadee	49	29	44·6	36·4	40·7	+ 0·5	7	23	6	0·32	+0·01	*	*	*	*
	Edgeworthstown	48	27	43·5	32·0	38·0	− 0·2	4	38	6	0·38	+0·26	*	*	*	*
10 IRELAND, S.	Dublin	51	33	46·4	39·9	43·3	+ 2·2	18	6	7	1·77	+1·29	10·6	− 2·5	20	− 5
	Parsonstown	49	30	45·0	37·4	41·4	+ 2·2	8	20	7	0·71	+0·03	9·9	− 1·1	19	− 2
	Kilkenny	48	27	45·6	36·0	41·0	+ 0·3	10	25	6	1·68	+0·95	*	*	*	*
	Roche's Point	50	34	48·0	40·9	44·6	+ 1·5	23	3	7	2·14	+0·96	*	*	*	*
	Valencia	52	38	48·4	40·1	44·4	− 0·6	25	5	6	1·67	+0·25	8·2	− 4·0	15	− 7
	Killarney	53	30	47·2	33·6	40·7	− 2·5	15	35	6	1·91	?	*	*	*	*
	Foynes	48	34	? 45·5	? 38·0	? 41·9	? + 0·9	? 10	? 18	6	1·39	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	43	50·9	45·0	48·1	+ 2·2	43	0	6	2·07	+1·27	10·1	?	18	?
	Jersey	51	37	47·9	40·3	44·3	+ 2·2	23	5	5	0·95	+0·23	7·4	− 7·4	13	−14

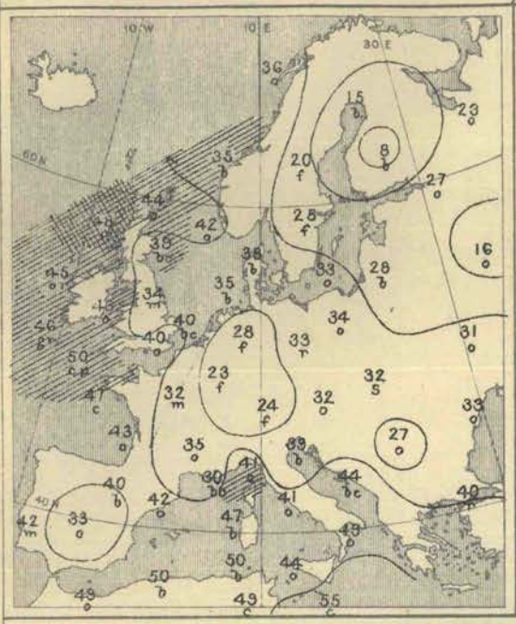
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

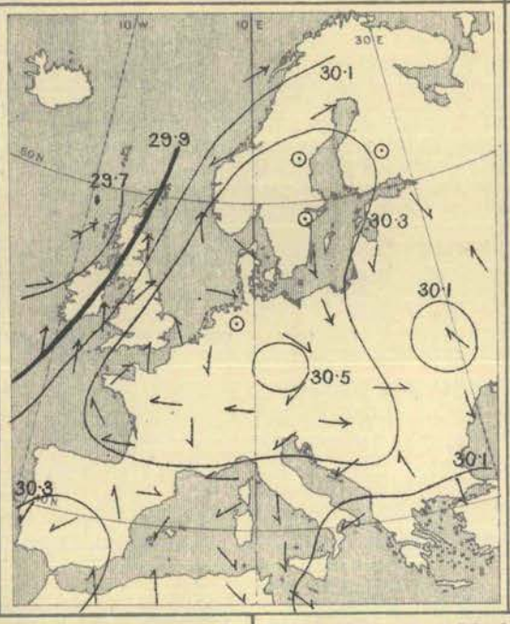
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 3rd January.

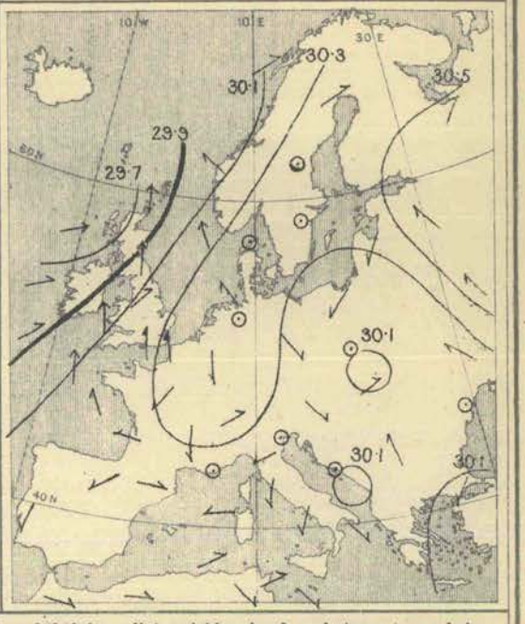
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy over the greater part of our Islands, with rain in the west of Ireland, and passing showers in the south-west of England; fine in the east of Scotland. Fine over northern Italy and the extreme south-west of France, as well as over Denmark and Finland; cloudy or dull in most other parts of the Continent, with fog in Germany, the Netherlands, and central Sweden, rain at Berlin, and snow at Lemberg. Sky clearing later in the east and south-east of England, but rain falling in the west and extreme north of our Islands generally; snow reported at Archangel, Warsaw, and Vienna.

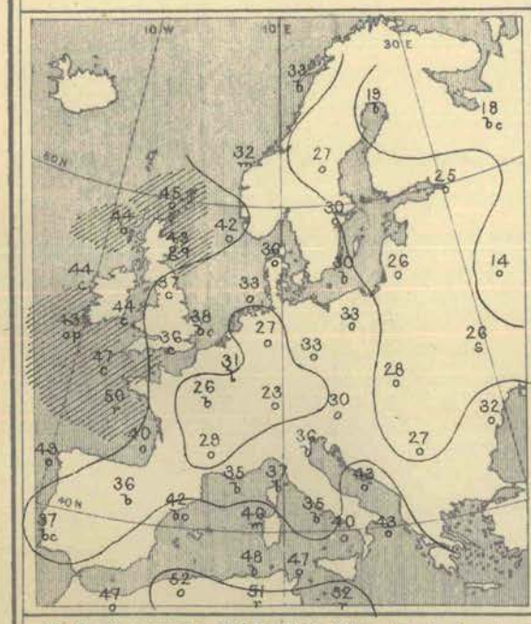
Temperature risen in our Islands and the north of France, but fallen in most other parts of Europe. Morning readings highest, (1) 55° at Malta, and 50° at Palma, Cagliari, and Algiers; (2) 50° at Scilly, and 49° at Roche's Point. Lowest, 8° at Kuopio, 15° at Uleaborg, 16° at Moscow, 18° at Helsingfors, and 20° at Hernösand; below the freezing point over northern, eastern, and central Europe generally. Thermometer remaining below 40° all day in the north of England, but exceeding 45° on our south-western, western, and extreme northern coasts. Exceeding 50° over southern Europe generally, and reaching 61° at Creizetle.

Wind Southerly over our Islands and their immediate neighbourhood, and strong to a gale in force on our western and extreme northern coasts. Calm or light from the Northward in Sweden and Finland. North-Westerly over Denmark, eastern Germany, and Austria. North-Easterly or Easterly over southern Europe generally; Easterly or South-Easterly in the west of France. Gale subsiding later in west and extreme north of our Islands; no important change occurring elsewhere.

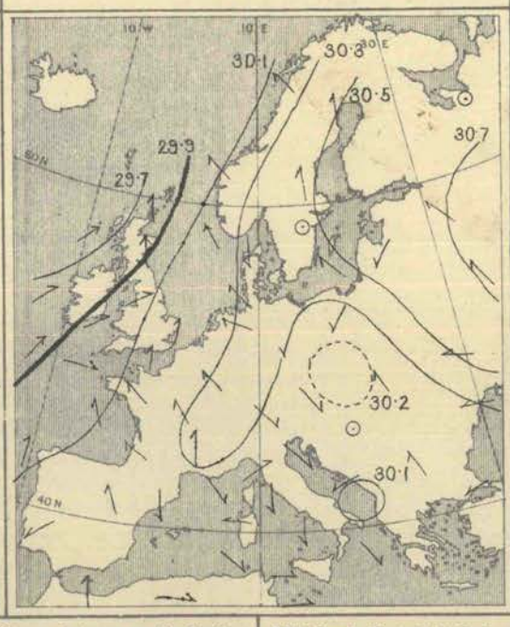
Barometer highest, 30·4 ins. and upwards over Denmark, Germany, and the Netherlands; 30·2 ins. and upwards in an anticyclone embracing all but the extreme north-western and south-eastern parts of Europe. Lowest, 29·7 ins. and less in a depression lying off our extreme north-west coasts; gradients steep over the west and north of our Islands Anticyclone beginning to give way later; depression in north-west moving away to the northward.

Monday, 4th January.

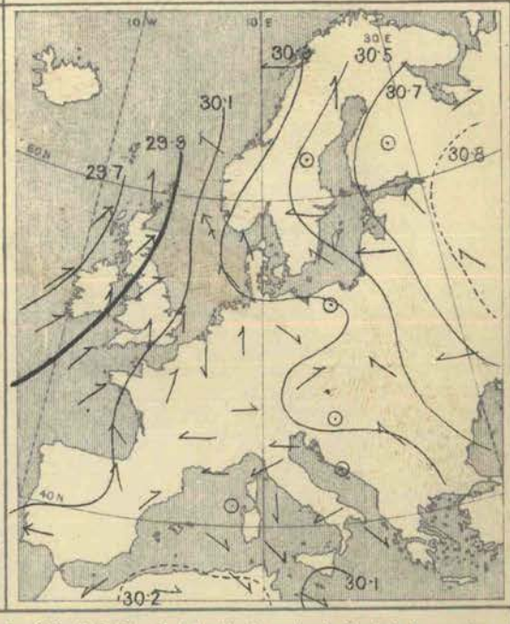
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning varied greatly in different parts of western Europe, but was mostly cloudy or overcast, with passing showers at Valencia (Ireland). Fine at many of the Irish and Scotch stations, and also over the Spanish Peninsula, the south of France, and northern Italy. Dull over the northern, eastern, and central parts of the Continent generally, with snow at Haparanda, Breslau, and Kiev. Rain falling later in most parts of our Islands and the north-west of France, and snow in Sweden.

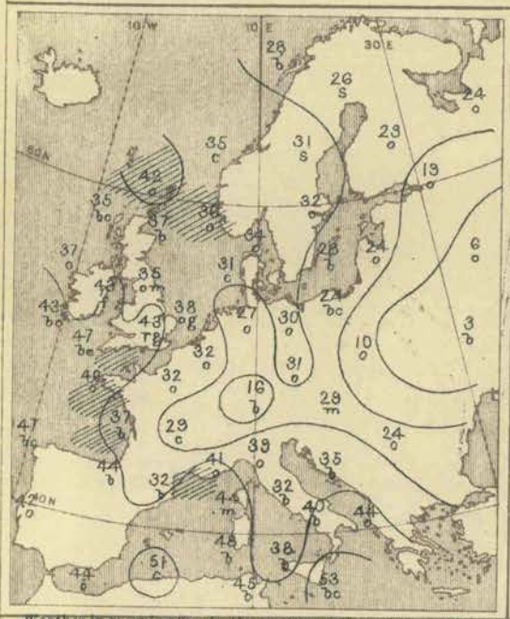
Temperature fallen generally, but risen over Sweden and Finland. Morning readings highest, (1) 52° at Malta and Algiers, and 51° at La Calle; (2) 50° at Brest, and 49° at Corunna. Lowest, (1) 6° at Kharkov, 14° at Moscow, and 18° at Archangel; (2) 21° at Münster, and 22° at Wiesbaden; below the freezing point over northern and central Europe generally, and very little above it over central England. Daily maxima below 40° at several of the English stations, but touching 45° on the Scotch coasts, and exceeding that point on our south-west coasts generally. Rising to 50° and more over the southern parts of France and Italy.

Wind South-Westerly in Ireland and the Hebrides, but Southerly or South-Easterly in nearly all other parts of western and northern Europe. Easterly in the west and south of Russia, Northerly or North-Westerly in Germany, and also in Italy; variable in Austria. No important change occurring over western Europe during day, but wind becoming rather variable in Germany.

Barometer highest, 30·7 ins. and upwards over central Russia; 30·3 ins. and upwards in an anticyclone covering the greater part of northern and eastern Europe, and extending in the form of a narrow band across Germany to the east of France. Lowest, 29·7 ins. and less in a depression lying to the north-westward of our Islands; 30·2 ins. and less in a shallow system over Poland and eastern Germany. No important change occurring over western Europe during day, but Polish depression filling up.

Tuesday, 5th January.

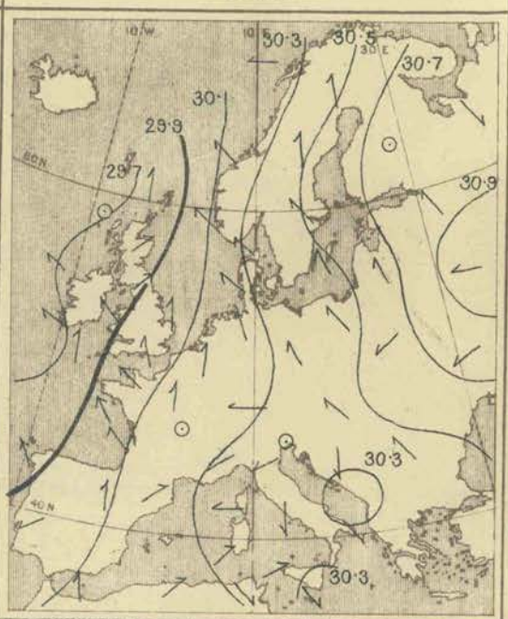
Temperature and Weather. 8 a.m.

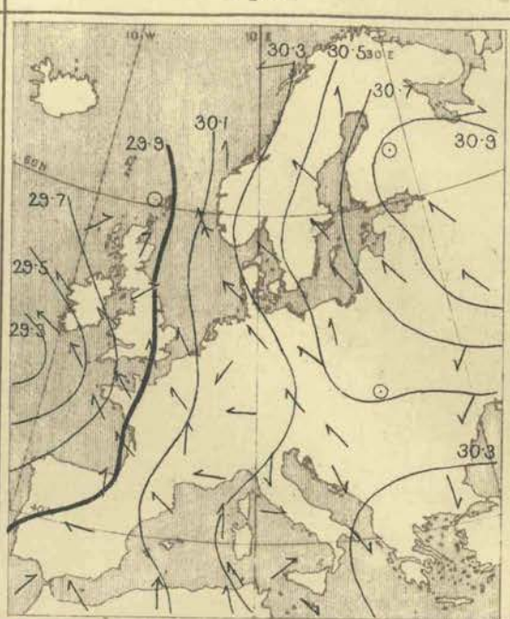


Weather in morning fine in the western and northern parts of our Islands generally, and also over the southern parts of the Continent. Cloudy or dull elsewhere, with fog or mist in the north and east of England, rain in our south-eastern counties, and snow over the northern parts of Sweden, as well as at Helsingfors and Breslau. Weather improving later in the east of England, but rain setting in on our south-west coasts.

Temperature risen over England, the Netherlands, and many parts of Scandinavia, but fallen elsewhere. Morning readings highest, (1) 53° at Malta, 51° at Algiers, and 48° at Cagliari; (2) 48° at Lorient and 47° at Scilly. Lowest, 3° at Kiev, 6° at Moscow, and 10° at Warsaw; below the freezing point over northern, eastern, and central Europe generally, as well as at some of the Irish stations. Daily maxima below 45° over the northern and eastern parts of our Islands generally, but thermometer touching 50° or more on our extreme south-west coasts, and also in the west of France, and many parts of southern Europe; reaching 59° at San Fernando and Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.



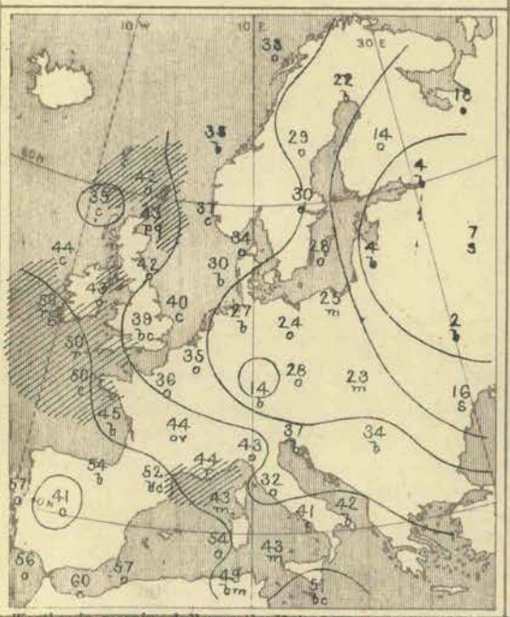


Wind South-Easterly or Southerly over nearly the whole of western, northern, and central Europe, but calm or South-Westerly in the north and east of Scotland; light or moderate in force in most places. Calm or light from the Eastward over Austria and the south of Russia; Northerly or North-Westerly over Italy and the Adriatic; Easterly or North-Easterly over Spain and the extreme south of France. Subsequently increasing in force from the South-Eastward on our extreme south-west coasts, and blowing a moderate gale in the south of Ireland.

Barometer highest, 30·94 ins. at Moscow; 30·2 ins. and upwards in a large anticyclone embracing all but the western parts of Europe. Lowest, 29·7 ins. and less in two depressions lying respectively to the north-westward and south-westward of our Islands. Former disturbance passing away to the northward, latter system proving deep and advancing steadily north-eastwards. Barometer falling briskly in south-west.

Wednesday, 6th January.

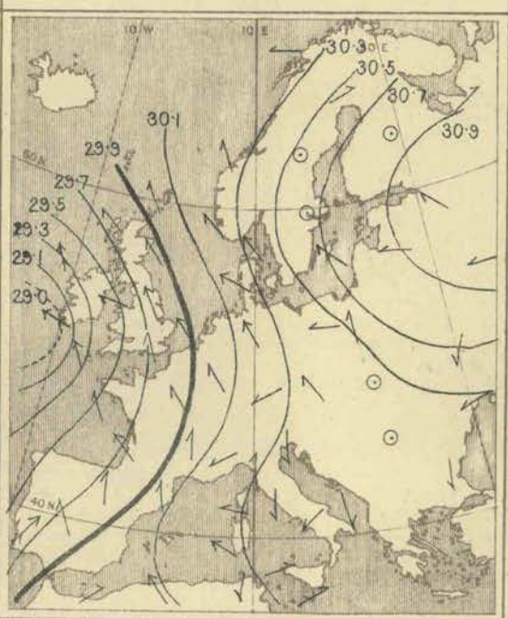
Temperature and Weather. 8 a.m.

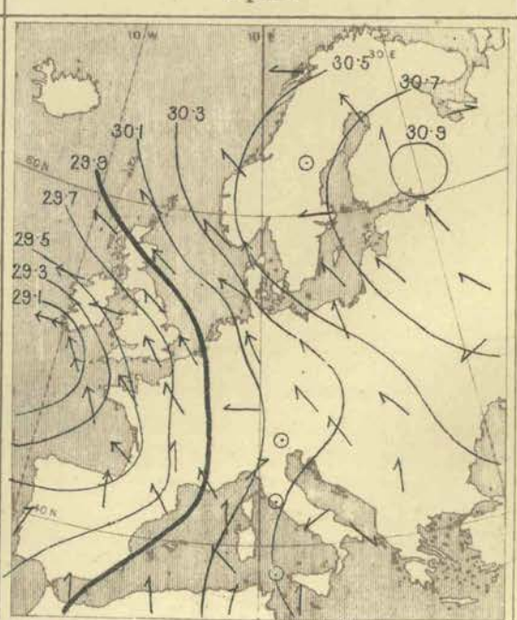


Weather in morning dull over the United Kingdom generally, with rain in the south-west and extreme north. Fine over the greater part of the Continent, but dull at most of the Swedish and Russian stations, with snow at Moscow; dull also over Spain, northern Italy, and the south of France, with rain at Toulon. Rain falling later over nearly the whole of England, Ireland, and the north of France—heavily in the south of Ireland; snow reported at Warsaw and St. Petersburg.

Temperature risen in the west and north of our Islands, and also over France, Spain, and northern Italy; fallen elsewhere. Morning readings highest, 60° at Oran, 59° at Nemours, and 57° at Lisbon and Algiers; exceeding 50° in the extreme south of France, and just touching that point on our own extreme south-west coasts. Lowest, 2° at Kiev, 3° at Kharkov, and 4° at St. Petersburg and Riga; considerably below the freezing point over Germany, and slightly below it in Sweden and Denmark. Daily maxima below 45° at most of our own northern and eastern stations; thermometer exceeding 55° over Spain and the southern parts of France and Italy, and reaching 64° at Biarritz.

Barometer and Wind. 8 a.m. and 6 p.m.



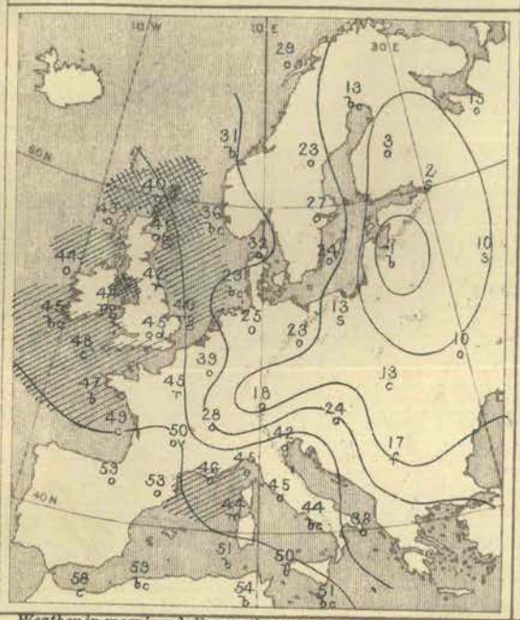


Wind South-Easterly over all the more western, northern, and central parts of Europe, and strong to a gale in force on our own western and extreme northern coasts. Easterly or North-Easterly over the central and southern parts of Russia, Northerly over Italy and the Adriatic, but South-Westerly at Palermo and Malta. No important change occurring later.

Barometer highest, 30·9 ins. and upwards over central Russia; 30·2 ins. and upwards in an anticyclone embracing the entire eastern half of Europe. Lowest, 29·0 ins. and less in a deep depression with its centre off the south-west of Ireland; gradients steep over western Europe generally. Anticyclone subsequently spreading westwards towards our own northern coasts; depression in south-west inclined to move south-eastwards.

Thursday, 7th January.

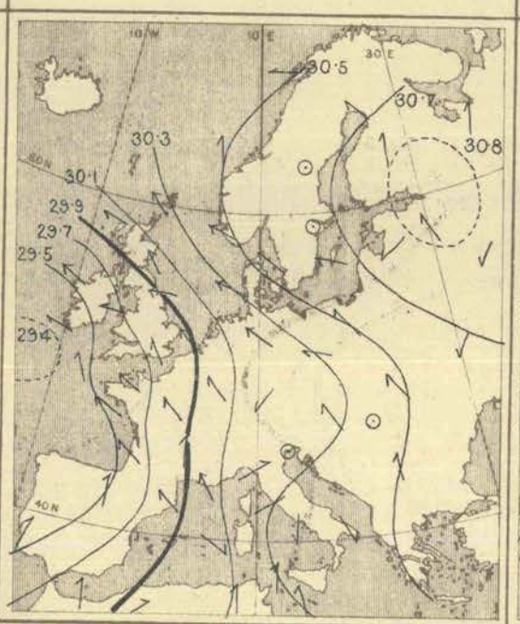
Temperature and Weather. 8 a.m.



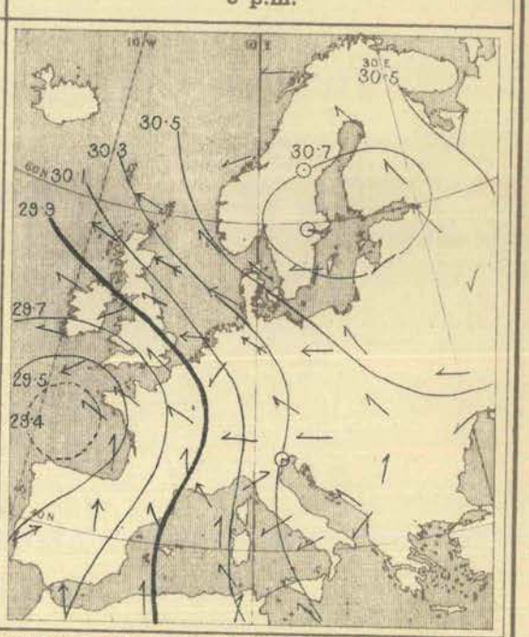
Weather in morning dull over the greater part of our Islands and the Continent, with rain in the north of Ireland, the northern, eastern, and south-eastern parts of England, and the north-east of France; snow reported at Haparanda, Neufahrwasser, and several of the Russian stations. Fine on our own extreme south-west coasts, as well as on the eastern shores of the North Sea, and at many of the Mediterranean stations. Rain falling later in most parts of our Islands and their immediate neighbourhood—heavily in the south-west. Solar halo seen at Jersey, and thunder and lightning occurring at Scilly at night.

Temperature risen in most parts of western and southern Europe, fallen or changed irregularly elsewhere. Morning readings highest, 59° at Biarritz and Algiers, 58° at Oran, and 54° at Lisbon and La Calle. Lowest, -1° Fahr. at Riga, +2° at St. Petersburg, 3° at Kuopio, and 4° at Memel. Below the freezing point over northern, eastern, and central Europe generally. Daily maxima below 45° in many parts of our Islands, but thermometer reaching 50° or more on our extreme south-west coasts, exceeding 60° in Spain and the southern parts of France and Italy, and touching 64° at Biarritz and Palermo.

Barometer and Wind. 8 a.m.



6 p.m.

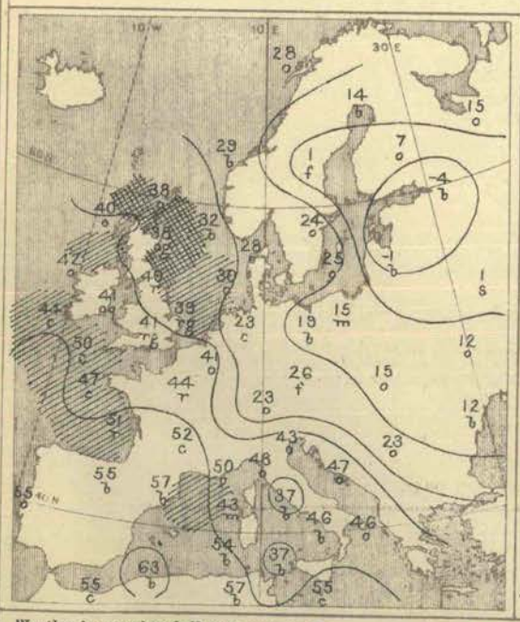


Wind South-Easterly over western and central Europe generally; moderate to fresh in force in most places, but blowing a strong gale on the north coasts of Ireland and Scotland. Calm or Easterly over Sweden and the central parts of Russia, Northerly or North-Easterly in Italy. Strong gale setting in later in the east of Scotland; no important change occurring elsewhere.

Barometer highest, 30·8 ins. and upwards over the north-western parts of Russia; 30·3 ins. and upwards in an anticyclone embracing the entire eastern half of Europe. Lowest, 29·4 ins. and less in a depression lying off the south of Ireland; gradients rather steep over western Europe generally. Depression subsequently moving slowly south-eastwards, and barometer rising on all but our extreme southern coasts.

Friday, 8th January.

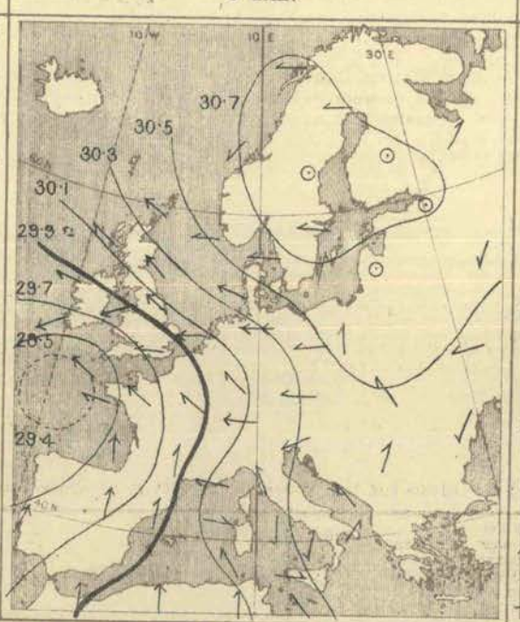
Temperature and Weather. 8 a.m.



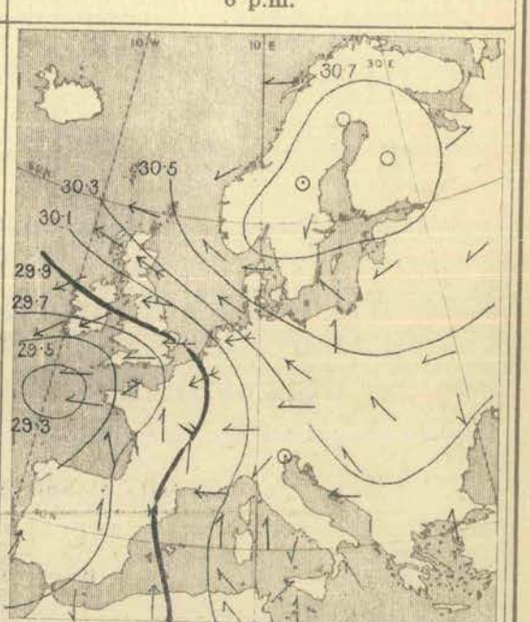
Weather in morning dull over western Europe as a whole, with rain in the east and south of England, and also over the northern and central parts of France; fine in the west of Norway, and also over the Baltic Provinces, Italy, and the extreme south of France; foggy at some of the German and Austrian stations, dull over central Russia, with snow at Moscow. Rain falling later over nearly the whole of England, Ireland, and the neighbouring parts of the Continent—heavily in London and at Oxford. Snow reported in the south of Russia.

Temperature fallen over all but the southern countries. Morning readings highest, 63° at Algiers, 57° at Perpignan and La Calle, and 55° at Biarritz, Lisbon, Barcelona, and Malta. Lowest, -4° Fahr. at St. Petersburg, -2° at Kharkov, -1° at Riga, and +1° at Moscow and Hernösand. Below the freezing point over northern and central Europe generally. Daily maxima in our Islands below 45° on all but our extreme south and south-west coasts, and below 40° at some of the English stations. Thermometer rising to 65° or more over Spain and the southern parts of France and Italy; reaching 69° at Perpignan and 70° at Palermo.

Barometer and Wind. 8 a.m.



6 p.m.

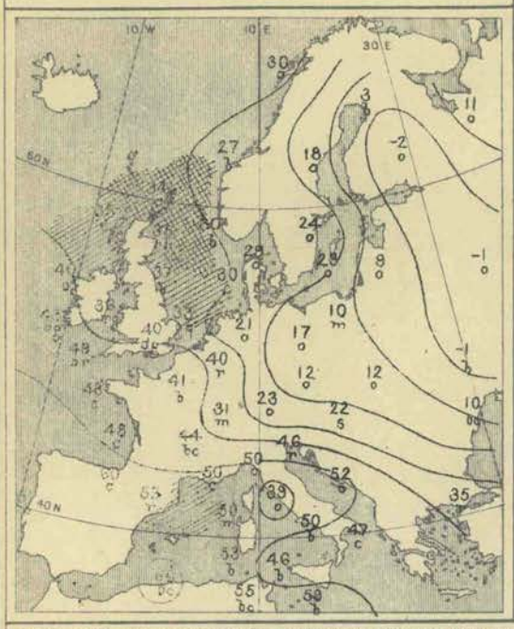


Wind Southerly over the Spanish Peninsula and the southern parts of France, but Easterly over nearly the whole of central and north-western Europe; strong to a gale in force on our own north-west, north, and east coasts, as well as over the southern parts of the North Sea. Calm or variable over the northern parts of Sweden and Russia. North-Easterly (Northerly to Easterly) over the south of Russia, and also over Austria and Italy. Gale increasing later on several parts of our east and north-west coasts.

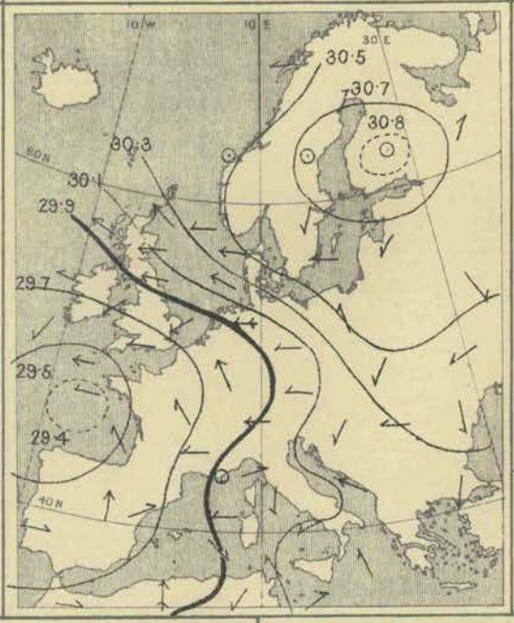
Barometer highest, 30·7 ins. and upwards over Finland and Scandinavia; 30·3 ins. and upwards in an anticyclone embracing all the more northern and eastern parts of Europe. Lowest, 29·4 ins. and less in a depression lying off the mouth of the English Channel. Depression beginning to fill up later, but new disturbance appearing off the Portuguese coasts.

Saturday, 9th January.

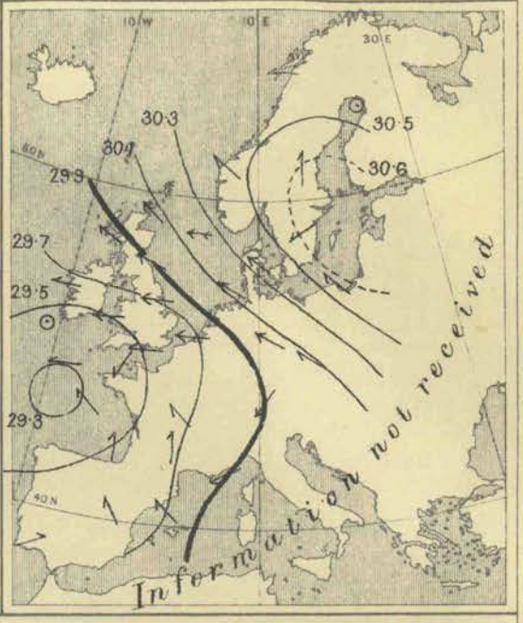
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning dull over the greater part of Europe, with rain in many parts of our Islands, and snow or sleet in the north of England, as well as at the Helder and Helsingfors. Snow or rain falling also at many of the Austrian stations. Fine in the west of Norway, and also in some parts of central France and southern Italy. Snow falling later in Scotland, and rain at most of our southern stations, as well as in the east and south of France.

Temperature fallen generally, but risen in the north of Sweden, as well as in Poland and Italy. Morning readings highest, 66° at Algiers, 60° at Biarritz, 59° at Malta, and 55° at La Calle and Yanis; above 45° in the Scilly and Channel Islands. Lowest, −2° Fahr. at Kuopio, −1° at Moscow and Kiev, and +1° at Memel; considerably below the freezing point in most parts of northern and central Europe, and very little above it in the central parts of Great Britain. Daily maxima below 40° at all but our extreme western and southern stations; thermometer exceeding 50° in the north of France, and exceeding 60° in the south of that country, and reaching 66° at Perpignan. Sharp frost occurring in north Scotland at night; sheltered thermometer falling to 17° at Nairn.

Wind Easterly over western and central Europe generally, and strong to a gale in force over Denmark, the North Sea, and all the more northern parts of our Islands. Calm or light from the South-Westward over the northern parts of Sweden and Russia; Northerly or North-Easterly over the south of Russia, and also over the greater part of Italy. Westerly over the Spanish Peninsula; Southerly or South-Easterly in the west and north of France. No important change occurring over western Europe during day.

Barometer highest, 30·82 ins. at Kuopio; 30·3 ins. and upwards in an anticyclone embracing all the more northern and eastern parts of the Continent. Lowest, 29·4 ins. and less in a shallow depression lying over the northern part of the Bay of Biscay (gradients rather steep over the North Sea and all the more northern parts of the United Kingdom). General falls taking place over western Europe during day; change greatest in north, and gradients consequently becoming less steep.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the anticyclone previously noticed over western Europe continued to move steadily eastwards, while depressions of considerable size, but of no great depth, passed northwards along our own extreme western coasts. On the 5th, however, when the central portion of the high pressure area had reached northern Russia, a rather deep cyclonic system appeared off the south-west of our Islands, the disturbance being joined later on by fresh depressions which advanced from the southward. The wind consequently increased to a gale from the South-Eastward on all our more western and northern coasts, with heavy rain in the south-western districts, and with slighter falls in most other parts of the Kingdom. After the 7th, when the Russian anticyclone spread westwards over Scandinavia and the adjacent portions of the Atlantic, the wind drew more into the Eastward, the gale continuing in the north, and extending down our east coasts, with falls of snow at many stations situated in the northern parts of Great Britain. In the north-east of Scotland a strong gale prevailed almost continuously during the last four days of the week, the sea being extremely high in that neighbourhood, and high in the north and east generally. At the close of the week the northern anticyclone appeared to be again receding eastwards, while the depression in the south-west was inclined to disperse, the general results being shown in a reduction of the barometrical gradient over our Islands, and a consequent decrease in the force of the wind.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 2.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	3·7	− 2·1	7	− 7	SOUTHPORT	3·1	?	6	?
OSWALDKIRK (Yorkshire)	0·0	− 8·6	0	− 16	MANCHESTER (Oldham Road)	0·3*	?	1*	?
WORKSOP	1·1	− 6·4	2	− 14	COLWYN BAY	2·1	?	6	?
THURCASTON (Leicestershire)	1·5	− 6·5	3	− 12	NEWQUAY	8·0	− 3·0	14	− 7
MARGATE	11·0	+ 1·2	20	+ 3	TORQUAY	2·2*	−11·8	4*	−19
WESTBOURNE (Sussex)	8·1*	− 3·9	15*	− 7	ARLEY COTTAGE (County Cavan)	6·1	− 4·6	12	− 8
BRIGHTON	3·0	− 8·5	5	− 15	GUERNSEY	8·2*	− 2·0	14*	− 4
EASTBOURNE	4·1	− 8·3	7	− 16					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WYMAN & SONS, LTD. LITH., 63, CARTER LANE

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV. No. 2.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 16TH, 1897. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95 only.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 8.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	44	18	37·8	28·3	33·3	5 below	0	− 6	61	+18	3	− 8	82	− 3
	1. SCOTLAND, EAST	44	17	37·6	29·5	33·7	3 below	0	− 7	58	+13	0	−13	85	− 3
	2. ENGLAND, N.E.	44	30	39·6	34·1	37·0	1 below	0	− 6	35	− 7	0	−12	69	−12
	3. ENGLAND, EAST	46	28	39·7	33·9	36·9	0 (average)	0	− 6	36	−12	0	−13	69	−24
	4. MIDLAND COUNTIES	46	27	37·9	32·3	35·4	2 below	0	− 8	46	− 1	0	−16	83	− 9
	5. ENGLAND, SOUTH	50	30	41·2	36·6	39·0	0 (average)	0	−10	21	−18	8	−13	39	−37
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	44	25	39·0	31·6	35·4	3 below	0	− 9	46	+14	3	−15	64	+ 1
	7. ENGLAND, N.W.	47	28	40·0	33·4	36·8	2 below	0	− 7	36	+ 2	1	−14	59	− 8
	8. ENGLAND, S.W.	51	28	41·6	36·2	39·0	2 below	0	−13	21	− 7	17	−10	28	−27
	9. IRELAND, NORTH	48	18	40·3	31·1	35·9	4 below	0	−12	43	+14	7	−16	66	+ 9
	10. IRELAND, SOUTH	50	20	42·6	35·2	38·1	4 below	2	−16	33	+10	22	−13	44	− 2
	—CHANNEL ISLANDS	52	34	46·0	40·7	43·4	0 (average)	15	− 6	4	− 9	44	0	4	−20

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 8.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	3	10 less	7	− 3	0·7	− 1·9	8	+ 3	16	+ 6	13	+ 4	14	+ 4
	1. SCOTLAND, EAST	3	1	5 less	7	0	0·6	− 0·7	4	− 3	8	− 7	7	− 8	7	− 8
	2. ENGLAND, N.E.	6	5	1 more	11	+ 3	1·2	+ 0·3	5	− 3	9	− 6	6	− 11	6	− 10
	3 ENGLAND, EAST	6	4	1 less	11	+ 3	1·4	+ 0·5	4	− 6	7	−12	7	− 13	7	− 12
	4. MIDLAND COUNTIES	4	2	3 less	10	+ 3	1·5	+ 0·5	2	− 8	4	−14	4	− 15	4	− 14
	5. ENGLAND, SOUTH	4	3	3 less	9	+ 2	1·6	+ 0·4	2	− 9	3	−16	7	− 15	6	− 14
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	1	12 less	6	− 2	1·1	− 1·4	14	+ 7	26	+11	17	+ 2	17	+ 2
	7. ENGLAND, N.W.	1	less than ½	7 less	7	0	0·6	− 0·8	3	− 5	6	− 8	4	− 13	4	− 12
	8. ENGLAND, S.W.	1	less than ½	9 less	8	0	1·5	− 0·3	9	− 3	16	− 4	14	− 9	13	− 8
	9. IRELAND, NORTH	2	1	8 less	8	− 1	0·8	− 0·8	13	+ 3	24	+ 6	20	+ 1	19	+ 1
	10. IRELAND, SOUTH	2	2	7 less	8	0	1·8	0·0	15	+ 3	28	+ 6	25	+ 1	24	+ 1
	—CHANNEL ISLANDS	4	2	6 less	10	+ 1	1·7	+ 0·2	10	− 6	17	−10	19	− 6	13	− 9

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, and the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period underwent a gradual change from the mild and rainy condition recently experienced to that of a more wintry type. Sleet or snow showers fell in many places, and occasional frosts occurred—mainly in the west and north. Snow fell over all the south-eastern parts of England on Saturday evening.

Temperature was somewhat below the mean in most regions, and just equal to it in the Channel Islands and in England S. and E. Over Ireland the deficit was as much as 4°, and in Scotand N. 5°. The highest of the maxima were recorded during the earlier part of the week, and ranged from 52° in the Channel Islands, 51° in England S.W., and 50° in England S. and Ireland S., to 44° in England N.E. and over Scotland. On Saturday the maxima were very little above the freezing point, even at the coast stations, and below it at some of those inland. The lowest of the minima, which were recorded on the 16th over England and Ireland and on the 10th in Scotland, ranged from 17° in Scotland E., 18° in Scotland N. and Ireland N., and 20° in Ireland S., to 30° in England S. and N.E., and to 34° in the Channel Islands.

Rainfall was considerably less than the mean in nearly all districts, but a little more than the normal in England N.E. In all the more western districts, and also in Scotland E., the fall was very slight.

Bright Sunshine exceeded the mean over Ireland and in the north and west of Scotland, but was deficient elsewhere. The percentage of the possible duration ranged from 28 in Ireland S., 26 in Scotland W., and 24 in Ireland N., to between 4 and 12 in most parts of England, and to 3 in England S.

Barometer and Wind.—During the earlier part of the week the low pressure system, which had existed for so long in the south-west, gradually filled up, and a new one, which appeared on the 12th, moved away southwards or south-eastwards. By the 13th an anticyclone approached our western coasts from the Atlantic, and this system subsequently moved North-Eastwards. South-Easterly winds of moderate strength were general during the earlier part of the week, but on the appearance of the anticyclone they shifted to the Northward, and finally to the North-Eastward.

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II.—DATA from which the SUMMARY on page 7 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches				
0. SCOTLAND, N.	Sumburgh Head Ⓢ	44	31	39·6	34·1	37·0	- 1·9	0	35	6	0·70	-0·20	*	*	*	*
	Stornoway Ⓢ	43	26	40·3	30·3	35·5	- 2·9	0	46	3	0·35	-0·85	9·1	+ 3·3	19	+ 6
	Wick Ⓢ	43	20	40·0	26·9	33·7	- 3·8	0	58	5	0·22	-0·33	*	*	*	*
	Lairg Ⓢ	40	18	36·4	24·9	30·9	- 5·4	0	78	4	0·12	-0·69	*	*	*	*
	Glencarron Ⓢ	40	19	35·1	25·2	30·4	- 6·6	0	81	3	0·14	-2·14	*	*	*	*
	Fort Augustus Ⓢ	40	22	36·9	26·9	32·1	- 6·1	0	69	4	0·11	-0·96	4·7	+ 1·9	9	+ 2
	Fort William Ⓢ	40	26	36·2	30·0	33·2	- 5·2	0	62	3	0·26	-1·91	9·6	+ 4·8	19	+ 8
1. SCOTLAND, E.	Nairn	41	17	36·6	26·6	31·8	- 5·4	0	71	3	0·09	-0·37	*	*	*	*
	Aberdeen	42	29	38·7	32·6	35·8	- 1·5	0	43	7	0·22	-0·32	5·2	- 5·8	10	-12
	Braemar Ⓢ	39	21	35·3	27·2	31·4	- 2·8	0	74	1	0·03	- 0·69	2·7†	- 1·1†	5†	- 3†
	Ochtertyre Ⓢ	44	22	38·1	28·9	33·7	- 2·5	0	58	3	0·05	-1·05	*	*	*	*
	Leith Ⓢ	41	28	39·0	31·6	35·5	- 3·2	0	46	1	0·03	-0·35	*	*	*	*
	Marchmont Ⓢ	39	24	37·6	30·0	34·0	- 2·0	0	56	3	0·11	-0·48	8·5	- 0·1	17	0
2. ENGLAND, N.E.	Alnwick Castle	41	31	39·0	33·7	36·5	- 0·9	0	39	7	0·58	+0·08	*	*	*	*
	Durham	41	30	37·9	32·3	35·5	- 1·0	0	46	6	0·66	+0·19	4·5	- 5·3	9	- 9
	Shields	42	33	40·4	34·4	37·5	- 0·6	0	32	7	0·40	0·00	*	*	*	*
	Scarborough Ⓜ	42	31	40·2	34·6	37·5	- 0·6	0	32	7	0·82	+0·35	*	*	*	*
	York	44	30	39·6	33·1	36·5	- 0·5	0	39	7	0·32	-0·10	4·3	- 1·9	8	- 3
	Spurn Head	42	33	40·3	36·0	38·2	+ 0·5	0	27	5	0·46	+0·15	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	44	28	40·3	33·5	37·0	+ 0·8	0	35	6	0·41	-0·04	9·0	- 0·5	16	- 2
	Yarmouth	42	30	39·3	34·6	37·0	- 0·1	0	35	5	0·32	-0·14	*	*	*	*
	Geldeston	45	32	39·8	34·9	37·5	- 0·2	0	32	5	0·55	+0·19	2·6	- 8·4	5	-15
	Cambridge	45	28	40·3	33·0	36·8	- 0·1	0	36	6	0·33	0·00	4·0	- 6·1	7	-13
	Rothamsted	46	29	38·8	33·4	36·2	- 0·4	0	41	6	0·24	- 0·31	0·7	- 9·1	1	-17
4. MIDLAND COUNTIES	Harrogate Ⓜ	39	30	37·0	32·8	35·0	- 1·0	0	49	6	0·29	?	1·1	?	2	?
	Bawtry (Hesley Hall)	41	31	39·0	33·1	36·2	- 0·6	0	41	6	0·35	-0·04	*	*	*	*
	Loughborough	41	27	38·4	32·7	35·7	- 1·4	0	44	5	0·31	-0·13	*	*	*	*
	Stamford (Duddington)	40	28	38·4	33·0	35·8	- 0·4	0	43	6	0·34	-0·07	*	*	*	*
	Cheadle Ⓜ	40	29	37·2	32·0	34·7	- 1·5	0	51	1	0·08	-0·52	*	*	*	*
	Shirley (near Solihull)	40	28	36·9	32·5	34·8	- 2·2	0	50	3	0·12	?	*	*	*	*
	Churchstoke Ⓜ	39	28	35·5	31·1	33·4	- 3·9	0	60	3	0·05	-0·57	0·0	- 9·8	0	-19
	Hereford Ⓜ	41	30	38·6	32·3	35·6	- 2·4	0	45	1	0·04	-0·49	*	*	*	*
	Cirencester	46	27	38·6	33·4	36·1	- 0·9	0	41	1	0·25	-0·40	2·2	- 8·9	4	-16
	Oxford	45	29	39·3	33·3	36·4	- 1·6	0	39	3	0·26	-0·22	2·6	- 7·6	5	-14
5. ENGLAND, S.	London	47	32	41·3	36·0	38·8	+ 0·2	0	22	3	0·20	-0·27	0·6†	- 4·8†	1†	- 8†
	North Foreland	50	34	41·7	36·7	39·3	+ 0·7	0	19	5	0·53	?	*	*	*	*
	Dungeness	48	33	41·4	37·0	39·3	+ 0·3	0	19	6	0·20	-0·33	*	*	*	*
	Hastings (St. Leonards)	46	32	40·6	35·7	38·3	- 0·8	0	26	6	0·37	-0·24	2·5	-10·9	4	-20
	Southampton	48	30	42·4	36·6	39·6	+ 0·4	1	20	3	0·33	-0·38	2·1	- 9·0	4	-16
	Hurst Castle	46	34	41·4	38·9	40·2	+ 0·3	0	13	3	0·25	-0·38	*	*	*	*
	Stowell Ⓜ	46	32	39·8	35·6	37·8	- 0·2	0	29	0	—	-0·73	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	43	25	39·1	29·4	34·4	- 4·7	0	53	0	—	-1·95	*	*	*	*
	Glasgow	41	28	37·9	31·9	35·0	- 3·0	0	49	1	0·10	-0·75	10·2	+ 5·7	20	+11
	Ardrossan	41	29	38·7	31·7	35·3	- 4·6	0	47	2	0·11	-0·74	*	*	*	*
	Glenlee Ⓢ	40	25	37·9	30·4	34·3	- 2·7	0	54	4	0·10	-1·54	*	*	*	*
	Douglas (Isle of Man)	44	31	41·2	34·8	38·1	- 2·2	0	27	1	0·01	-0·97	16·7	+ 6·4	31	+11
7. ENGLAND, N.W.	Stonyhurst	41	30	38·2	33·0	35·7	- 1·5	0	44	0	—	-0·90	2·8	- 5·2	5	-10
	Blackpool Ⓜ	42	28	39·6	32·3	36·1	- 1·7	0	41	0	—	-0·62	5·6	- 2·8	10	- 4
	Manchester (Prestwich)	42	28	40·2	32·8	36·7	- 0·6	0	37	0	—	-0·70	0·4	?	1	?
	Liverpool Obsy. (Bidston)	41	29	38·0	31·4	34·8	- 4·1	0	50	1	0·13	-0·34	*	*	*	*
	Llandudno Ⓜ	47	28	41·9	35·1	38·6	- 2·3	0	24	0	—	-0·60	*	*	*	*
	Holyhead	45	31	42·1	35·7	39·0	- 2·9	0	23	2	0·02	-0·71	*	*	*	*
8. ENGLAND, S.W.	Llandovery	45	28	40·4	31·4	36·1	- 1·6	0	41	1	0·01	-1·13	*	*	*	*
	Pembroke	45	31	40·9	37·3	39·2	- 3·2	0	20	1	0·04	-0·78	20·7	+ 9·0	37	+17
	Clifton	42	30	38·6	35·1	36·9	- 2·3	0	35	2	0·06	-0·68	*	*	*	*
	Arlington (N. Devon)	45	29	40·1	34·7	37·5	- 3·2	0	32	0	—	-0·98	*	*	*	*
	Cullompton Ⓜ	47	31	41·1	36·8	39·0	- 0·4	0	21	1	0·07	-0·63	0·5	- 8·9	1	-16
	Falmouth	51	30	45·8	37·4	41·8	- 1·4	11	20	2	0·03	-1·17	12·1	- 0·1	21	0
	Plymouth	49	32	43·5	38·8	41·2	- 0·4	4	13	1	0·02	-0·84	4·8	- 6·0	8	-11
	Prawle Point	48	31	42·0	37·7	39·9	- 1·4	0	15	2	0·03	-0·63	*	*	*	*
9. IRELAND, N.	Malin Head	43	31	40·3	35·0	37·8	- 3·3	0	29	1	0·02	?	*	*	*	*
	Londonderry	43	22	38·5	30·3	34·6	- 5·1	0	52	3	0·06	-0·82	*	*	*	*
	Edenfel (Omagh)	40	18	37·9	29·4	33·8	- 3·7	0	57	1	0·02	-0·76	*	*	*	*
	Belmullet	48	28	43·7	32·7	38·4	- 4·1	5	35	3	0·14	-1·08	*	*	*	*
	Markree Castle	44	21	40·5	28·9	34·9	- 4·1	0	50	1	0·01	-0·87	15·3	+ 6·5	28	+11
	Armagh	48	25	41·1	29·8	35·7	- 2·7	0	44	1	0·06	-0·61	11·9	+ 2·4	22	+ 4
	Donaghadee	45	30	42·4	35·6	39·1	- 1·0	1	23	4	0·14	-0·49	*	*	*	*
	Edgeworthstown	43	20	38·2	27·0	32·8	- 5·4	0	64	1	0·01	-0·61	*	*	*	*
10. IRELAND, S.	Dublin	45	29	41·6	34·7	38·3	- 2·3	0	26	2	0·10	-0·40	8·8	- 4·2	16	- 8
	Parsonstown	46	22	40·0	30·1	35·3	- 4·2	0	47	0	—	-0·68	20·6	+ 9·6	37	+16
	Kilkenny	45	26	39·7	32·4	36·2	- 4·5	0	41	1	0·05	-0·71	*	*	*	*
	Roche's Point	48	30	44·3	35·4	40·0	- 3·1	6	26	3	0·83	-0·35	*	*	*	*
	Valencia	50	25	45·3	35·6	40·6	- 4·2	9	26	4	0·21	-1·22	16·9	+ 4·5	30	+ 8
	Killarney	49	20	44·5	30·8	37·9	- 5·3	7	43	3	0·29	?	*	*	*	*
	Foynes	?	23	?	30·2	?	?	?	?	2	0·03	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	34	46·9	41·1	44·1	- 1·5	18	3	3	0·15	-0·65	12·4	?	21	?
	Jersey	51	36	45·0	40·3	42·7	+ 0·8	12	5	4	0·19	-0·53				

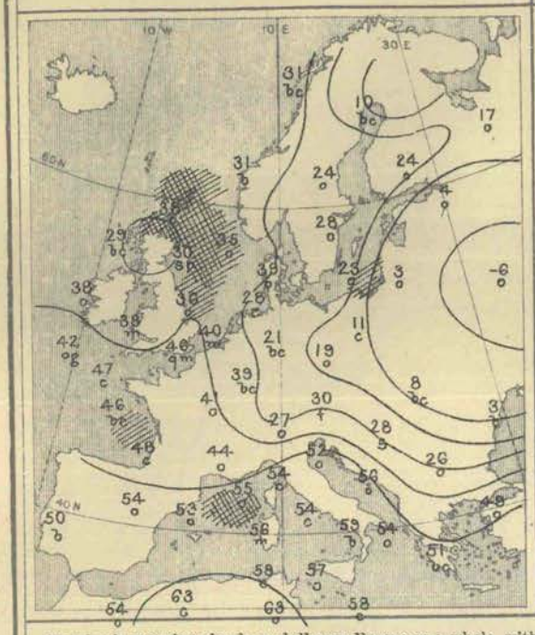
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

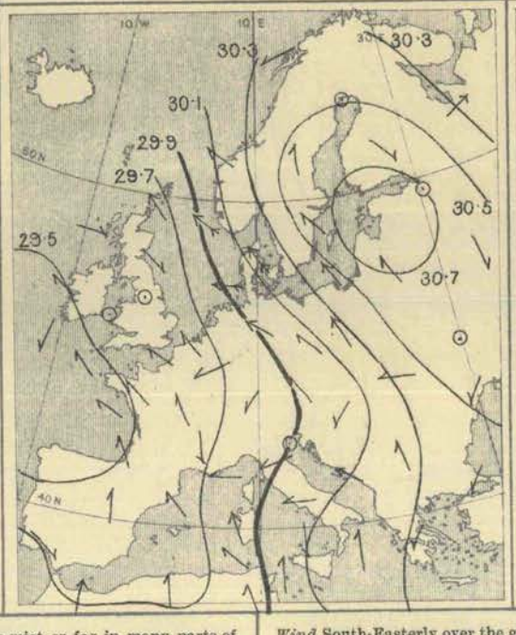
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 10th January.

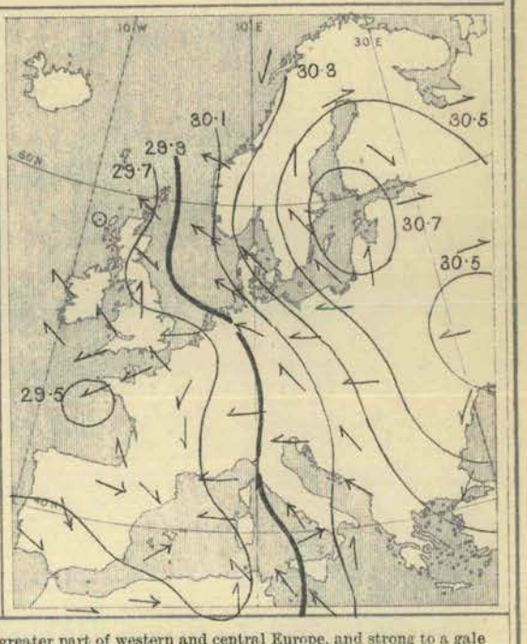
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over Europe as a whole, with mist or fog in many parts of our Islands and Germany, and with rain or snow on the east coasts of Great Britain. Rain falling also at Turin, and snow at Buda-Pesth. Fine in Lapland and Norway, as well as in Greece and the extreme south of Russia. A little rain falling later in most parts of the United Kingdom, and larger amounts in the south of France; no decided change occurring elsewhere.

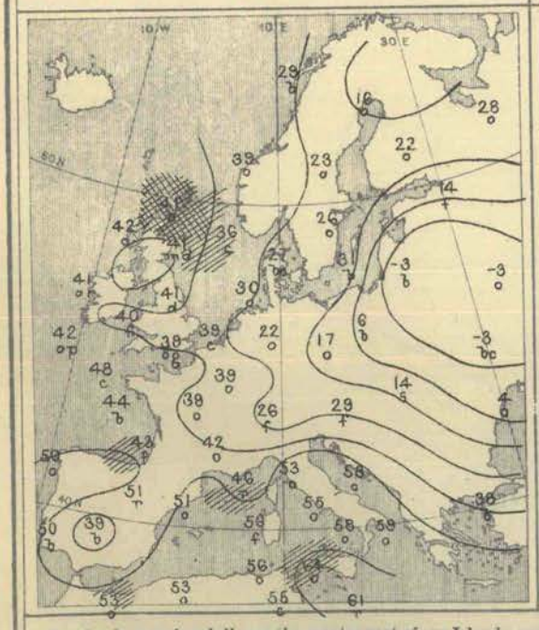
Temperature fallen in Ireland and Scotland, and also in the south of Russia, risen or changed irregularly elsewhere. Morning readings highest, 63° at Algiers and La Calle, 59° at Naples, and 58° at Cagliari and Malta; above 50° at the Mediterranean and Adriatic stations generally, and also in the south of France. Lowest, −6° Fahr. at Moscow, +2° at Kharkov and Nicolaieff, and 3° at Riga and Odessa; below the freezing point over northern, eastern, and central Europe generally, and also in the north of Scotland. Daily maxima below 40° at several of our own northern stations, but exceeding 45° in the extreme west and south; exceeding 60° in many parts of southern Europe, and touching 77° at Palermo.

Wind South-Easterly over the greater part of western and central Europe, and strong to a gale in force in the Shetlands, as well as in Denmark and the south of Norway. Light from the North-Westward in the north of Scotland, and also over northern and central Russia; Northerly or North-Easterly in the south of Russia, and also in Greece; Easterly in the south of France; Westerly over the Spanish Peninsula. Subsequently backing to the Eastward or North-Eastward over England; no important change occurring elsewhere.

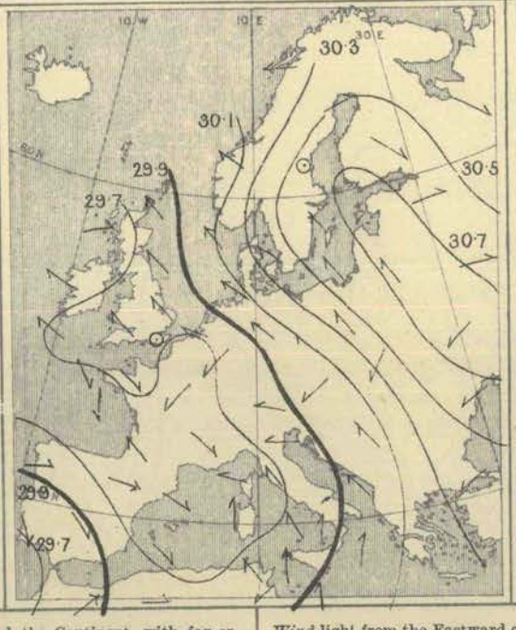
Barometer highest, 30·7 ins. and upwards over the Gulf of Finland and its immediate neighbourhood; 30·2 ins. and upwards in an anticyclone covering nearly the whole of northern and eastern Europe. Lowest, 29·5 ins. and less in a large shallow depression lying to the south-westward of our Islands. Depression subsequently moving south-eastwards and partially filling up; new, but much smaller, disturbance appearing near Barcelona in evening.

Monday, 11th January.

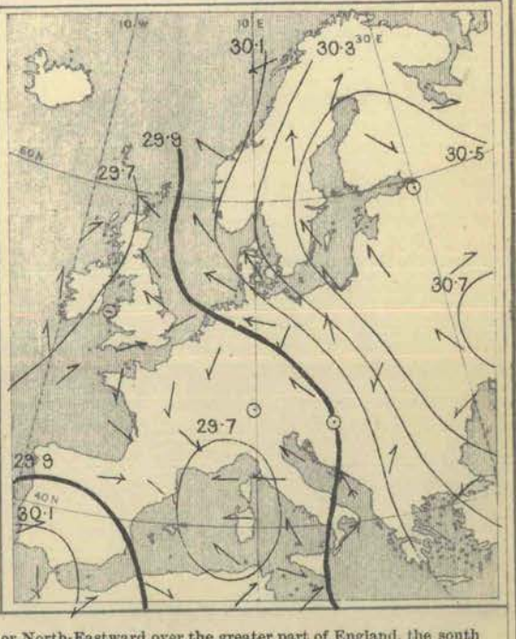
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over the greater part of our Islands and the Continent, with fog or mist in many places; rain falling at several of our own northern stations, as well as in the south of France, and at Palma, and Malta; snow reported at Lemberg and Odessa. Slight rain falling during day in several parts of the United Kingdom; lunar halo seen at Wick. Heavy rain falling in Italy and the neighbouring parts of France and Austria—as much as 1·1 ins. at Rome.

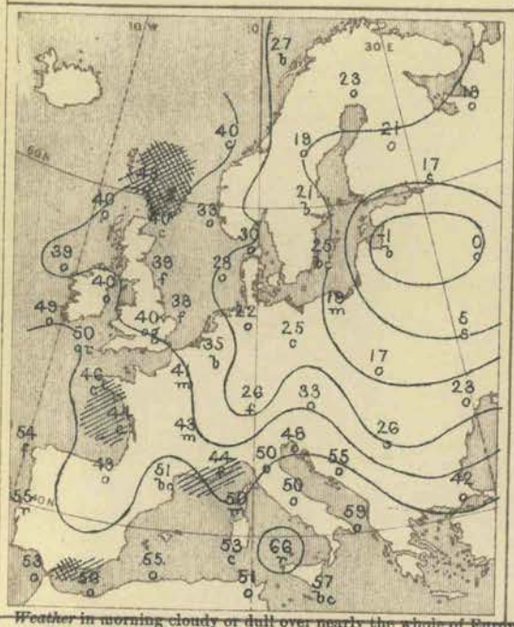
Temperature fallen over southern Europe generally, but changed very irregularly elsewhere. Morning readings highest, 64° at Palermo, 61° at Malta, and 59° at Brindisi; above 50° at most of the Mediterranean and Adriatic stations. Lowest, −3° Fahr. at Riga, Moscow, and Kiev, +1° at Memel, and 4° at Nicolaieff; below the freezing point over northern, eastern, and central Europe generally, and also over central Scotland. Daily maxima below 45° in all the more northern and eastern parts of our Islands, and below 40° at some of the northern and central stations; thermometer exceeding 55° in many parts of southern Europe, and reaching 73° at Palermo.

Wind light from the Eastward or North-Eastward over the greater part of England, the south of Ireland, the Netherlands, and the north of France. Moderate from the Southward or South-Eastward in Scotland and the north of Ireland. South-Easterly over the more central parts of the Continent generally, as well as in Italy, and strong in force in Denmark and the south of Norway. Westerly in the south of France, North-Westerly over the Spanish Peninsula. Subsequently shifting to the South-Eastward in the south of Ireland; no decided change occurring elsewhere.

Barometer highest, 30·7 ins. and upwards in the west and south of Russia; 30·3 ins. and upwards in an anticyclone embracing the greater part of northern and eastern Europe; 30·1 ins. and upwards in another system lying to the south-westward of the Spanish Peninsula. Lowest, 29·7 ins. and less in the west of Scotland, and the north of Ireland, and also over the Bay of Biscay, France, and the extreme south-east of England. No material change occurring later, but high and low pressure systems inclined to move south-eastward.

Tuesday, 12th January.

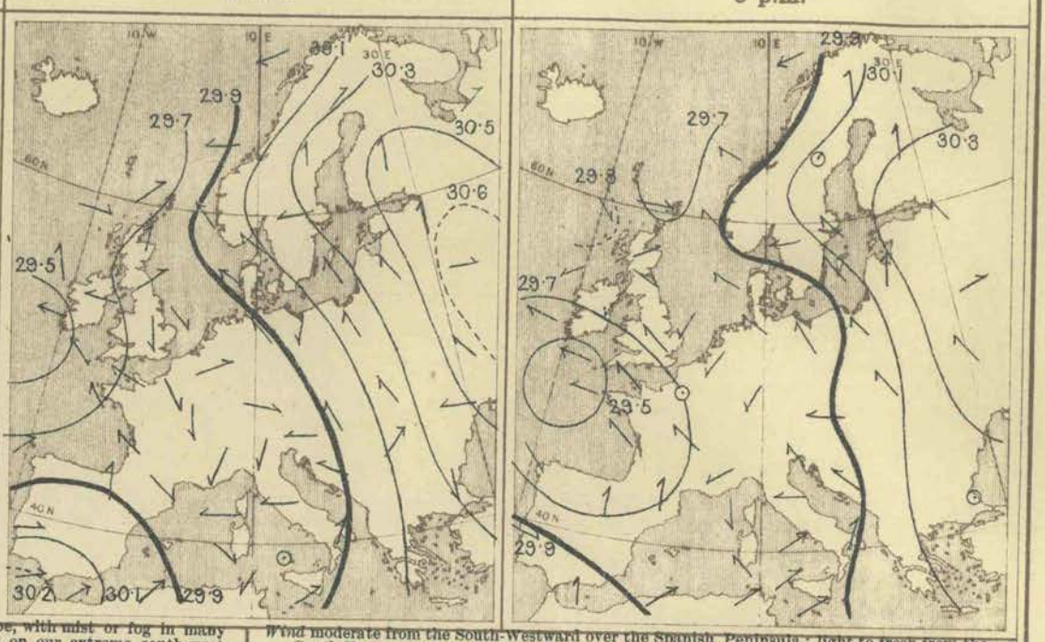
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over nearly the whole of Europe, with mist or fog in many parts of our Islands, France, and Germany, and with showers on our extreme south-west coasts. Rain falling at Lisbon, and also at Limoges, Turin, and Breslau, and snow at St. Petersburg and Kiev. Slight rain falling later in many parts of our Islands, and larger amounts at several of the French, Spanish, and Italian stations.

Temperature risen in the south-west of our Islands, and also in Germany and Russia; changed very irregularly elsewhere. Morning readings highest, 66° at Palermo, 59° at Brindisi, and 57° at Malta, and 56° at Oran; above 50° at the Mediterranean and Spanish coast stations generally, and just touching that point at Scilly. Lowest, −1° Fahr. at Riga, 0° zero at Moscow, +3° at Kharkov, and 5° at Kiev; below the freezing point over northern, eastern, and central Europe generally, and very little above it at some of our own northern stations. Daily maxima below 45° on all but our south-west coasts, but thermometer exceeding 50° at Scilly, exceeding 55° in many parts of southern Europe, and reaching 64° at Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.

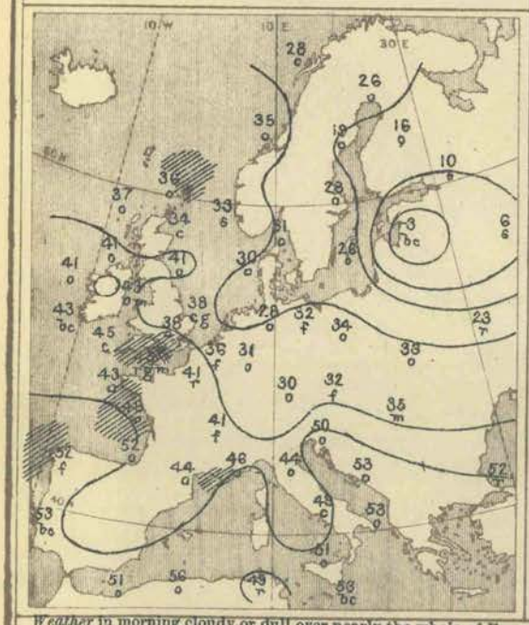


Wind moderate from the South-Westward over the Spanish Peninsula; light to fresh from the South-Eastward on the west coasts of our Islands and France. Light from the Northward over the eastern and central parts of England, and also over central France. South-Easterly over the more central parts of the Continent generally. Southerly over the northern parts of Sweden and Russia; variable in Italy and the south of France. Subsequently backing to the Eastward on our own western coasts. No important change occurring elsewhere.

Barometer highest, 30·78 ins. at Kharkov; 30·3 ins. and upwards in an anticyclone covering the whole of Russia; 30·2 ins. and upwards in another system lying to the southward of Spain. Lowest, 29·5 ins. and less in a depression lying off our own extreme south-west coasts; 29·7 ins. and less in a shallow system off the south of France. Former depression subsequently moving south-eastwards, and barometer rising in most parts of our Islands.

Wednesday, 13th January.

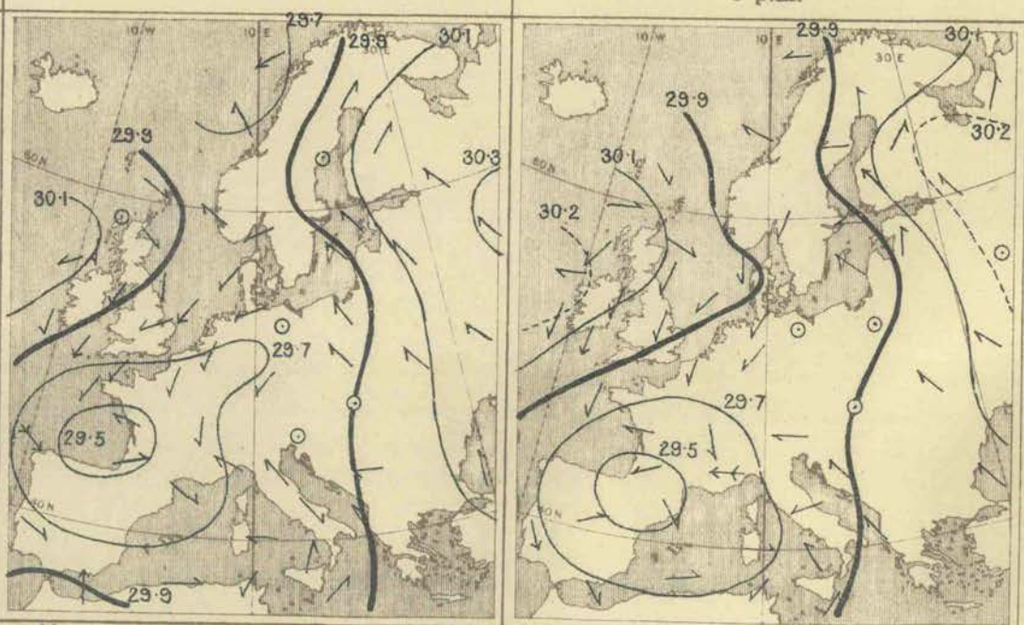
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over nearly the whole of Europe, with fog or mist at many of the western and central stations, and with rain in several parts of France, as well as at Cagliari and La Calle; snow reported at Skudesnaes, Memel, and Moscow. Showers of cold rain or sleet falling later in many parts of Great Britain, heavy rain over the southern parts of France and Italy, and snow in Sweden. Lunar halos seen in the north of Scotland.

Temperature changed rather irregularly. Morning readings highest, 57° at Nemours, 56° at Algiers, and 55° at Malta; above 50° at most of the Mediterranean, Adriatic, and Spanish coast stations. Lowest, −3° Fahr. at Riga, +4° at Kharkov, 6° at Moscow, and 10° at St. Petersburg; below the freezing point over northern, eastern, and central Europe generally, and very little above it in Scotland. Daily maxima below 40° at several of our own northern stations, and below 45° on all but our extreme south-west coasts. Thermometer exceeding 55° in many parts of southern Europe, and reaching 63° at Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.

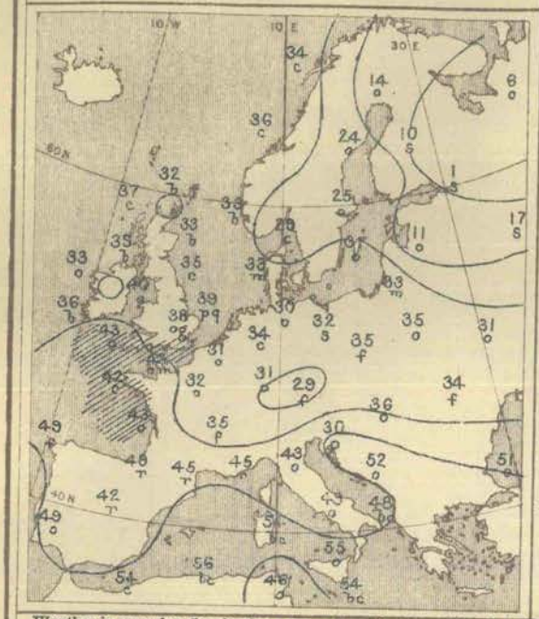


Wind North-Easterly over Ireland, England, the Netherlands, western Germany, and the north of France, and fresh or strong in force over the western parts of the English Channel; North-Westerly on the Spanish and Portuguese coasts, with a gale at Corunna. Light from the North-Westward in Scotland; South-Easterly or Southerly over the northern and eastern parts of the Continent, and also over the greater part of Italy, but South-Westerly in Sicily and Algeria. No important change occurring during day.

Barometer highest, 30·2 ins. at Moscow; 30·1 ins. and upwards in an anticyclone covering the whole of Russia, and also in another system lying off our own extreme western coasts. Lowest, 29·5 ins. and less in a well marked depression over the southern half of the Bay of Biscay; 29·7 ins. and less in a shallow area off the west of Norway. Anticyclone in west subsequently spreading eastwards. Depression over the Bay of Biscay moving south-eastwards.

Thursday, 14th January.

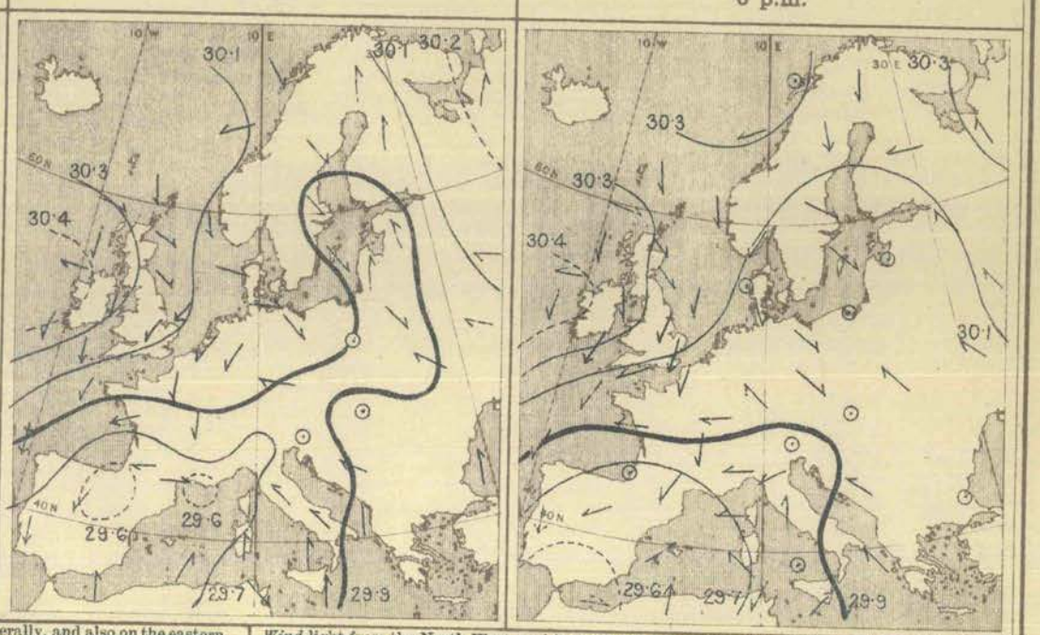
Temperature and Weather. 8 a.m.



Weather in morning fine in the west and north of our Islands generally, and also on the eastern shores of the North Sea. Dull in nearly all other parts of Europe, with fog at many of the central stations; rain over Spain and the extreme south of France, and snow at several of the Russian stations, as well as at Karlstad and Berlin. Showers falling during day in many parts of Great Britain, with snow or hail in places; snow falling also in Sweden, and rain in many parts of southern Europe—as much as 2·7 ins. at Perpignan.

Temperature fallen over western Europe generally, but risen elsewhere. Morning readings highest, 56° at Algiers, 55° at Palermo, and 54° at Cagliari and Malta; above 50° at most of the Mediterranean and Adriatic stations. Lowest, 6° at Archangel, 7° at St. Petersburg, 10° at Kuopio, and 11° at Riga; below the freezing point over northern and eastern Europe generally, and also over central Ireland and the extreme north of Scotland. Daily maxima below 40° in many parts of Great Britain and France; thermometer exceeding 50° over Spain and southern Italy, and reaching 66° at Naples.

Barometer and Wind. 8 a.m. and 6 p.m.

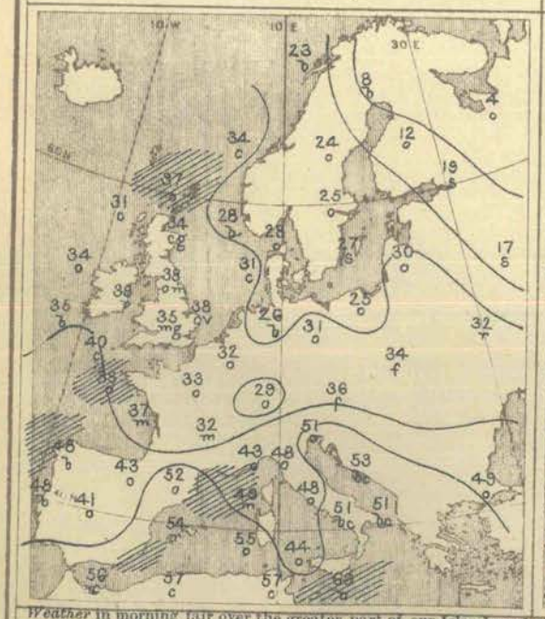


Wind light from the North-Westward in Scotland, and also over the greater part of Scandinavia and Denmark. Moderate to fresh from the North-Eastward over England, Ireland, the Netherlands, and the north of France; strong from the Northward on the west coasts of the Spanish Peninsula, with a gale at Corunna; Southerly or South-Easterly over Italy and the Mediterranean, Easterly in the south of France. Calm in Austria; Southerly or South-Easterly at most of the Russian stations. No important change occurring later.

Barometer highest, 30·4 ins. and upwards in the west of Ireland; 30·1 ins. and upwards in an anticyclone covering nearly the whole of our Islands and the North Sea, and also in another system over northern and central Russia. Lowest, 29·6 ins. and less in two depressions—one lying off the extreme south of France, and the other over the north-east of Spain. Anticyclone over our Islands spreading slowly eastwards during day; depression over Spain passing southwards.

Friday, 15th January.

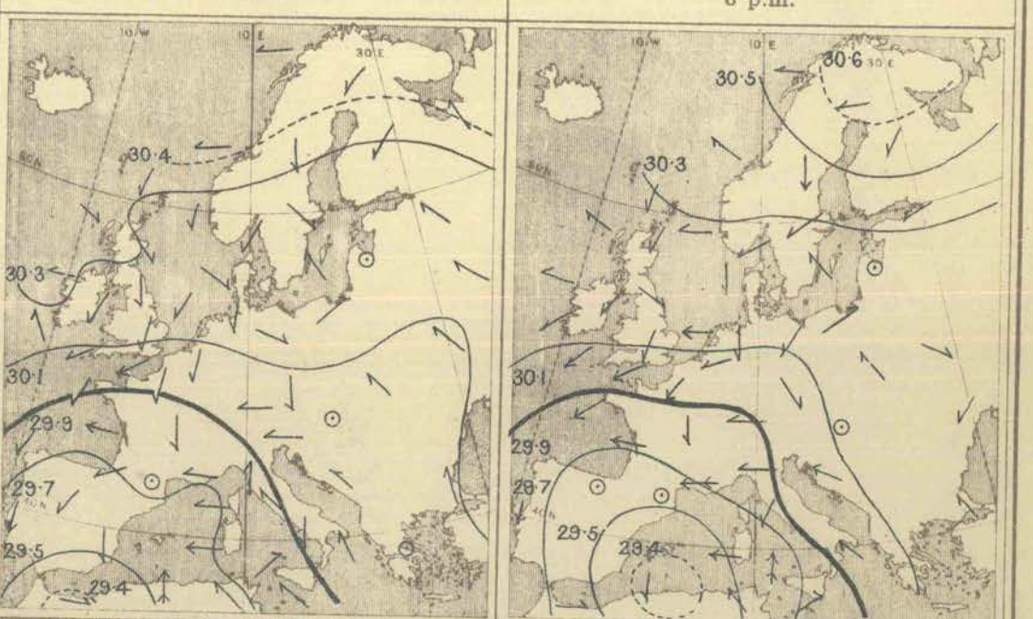
Temperature and Weather. 8 a.m.



Weather in morning fair over the greater part of our Islands and also in the west and north of Scandinavia, the western parts of the Spanish Peninsula, Greece, and the south of Italy. Dull in nearly all other parts of the Continent, with fog over Austria and northern Italy, rain in the extreme south of France, and snow at some of the Swedish and Russian stations, and also at Breslau. Snow showers occurring later in many parts of Great Britain, and also in Sweden and Denmark; heavy rain falling in the south of France, northern Italy, and Western Algeria—as much as 2·4 ins. at Perpignan.

Temperature fallen in most of the western and central countries, but changed irregularly elsewhere. Morning readings highest, 60° at Malta, 58° at La Calle, and 57° at Algiers and Sfax, above 50° at several of the Mediterranean and Adriatic stations. Lowest, 4° at Archangel, 8° at Haparanda, 12° at Kuopio, and 17° at Moscow; below the freezing point over northern, eastern, and central Europe generally. Daily maxima below 40° at many of our own stations, and very little above it in the west of France; the thermometer exceeding 55° in many parts of southern Europe, and reaching 64° at Palermo and Malta.

Barometer and Wind. 8 a.m. and 6 p.m.

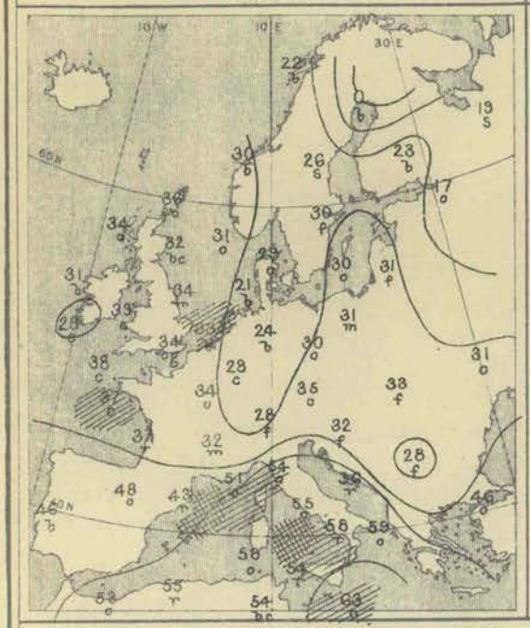


Wind North-Easterly (North to East) over western and northern Europe as a whole, but North-Westerly in the north and east of Scotland; light or moderate in force generally, but fresh in the Bay of Biscay and the western part of the Channel. Light from the South-Eastward over central Russia, Northerly in Germany, calm in Austria, Southerly or South-Easterly in Italy. Subsequently freshening from the North-Eastward at all the English Channel Stations; gales from between east and south springing up at many of the Mediterranean stations.

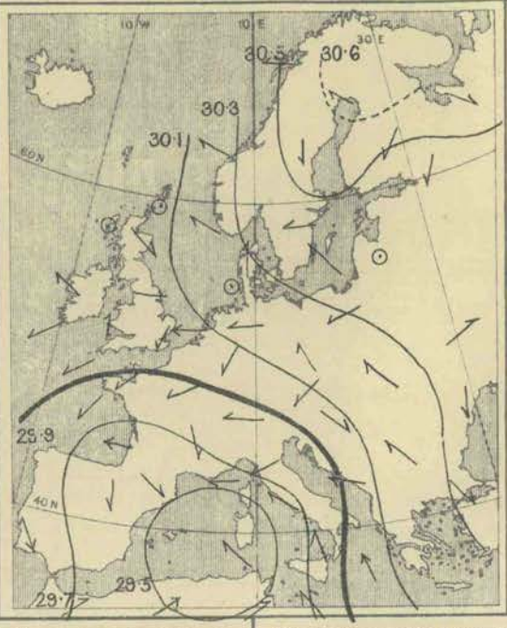
Barometer highest, 30·4 ins. and upwards over the extreme northern parts of the Continent, 30·1 ins. and upwards over all the more northern parts of Europe, including the British Islands. Lowest, 29·4 ins. and less in a depression over Morocco and Western Algeria. Depression subsequently moving eastward, but shallow secondary systems appearing over France and the Spanish Peninsula.

Saturday, 16th January.

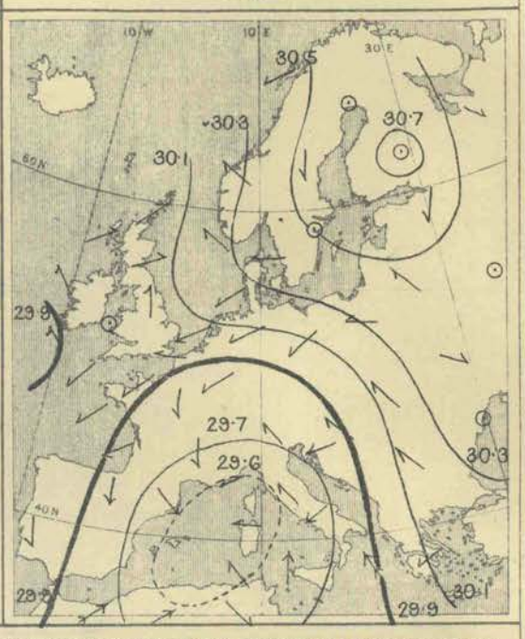
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine in the west of our Islands, as well as on the west coasts of Norway, and in Holland, Denmark, and Portugal. Cloudy or dull elsewhere, with rain in several parts of Italy and the south of France, and snow at Hernösand, Karlstad, and Swinemunde. Snow or sleet falling later in many parts of Great Britain, and rain in the south of Ireland. Heavy rain occurring in the south of France and some parts of Italy—as much as 1·3 ins. at Perpignan, where the total since 6 p.m. on the 13th amounted to 7·96 ins.

Temperature fallen a little in our Islands and their immediate neighbourhood. Morning readings highest, 63° at Malta, 59° at Brindisi, and 58° at Naples and Cagliari; above 50° at the Mediterranean and Adriatic stations generally. Lowest, 0° zero at Haparanda and Uleaborg, 17° at St. Petersburg, and 19° at Archangel; below the freezing point over northern, eastern, and central Europe generally, as well as in many parts of the United Kingdom. Daily maxima below 35° at several stations in Great Britain, and also in central Ireland. Thermometer exceeding 55° in most parts of southern Europe. Frost occurring over our Islands at night; thermometer at Nairn falling to 19°.

Wind calm or variable over the northern parts of the United Kingdom, but Easterly or North-Easterly at our southern stations, as well as in the western, northern, and central parts of the Continent generally; fresh or strong in force on our own east and south-east coasts. Moderate to strong from the South-Eastward in Italy; strong from the Eastward in the south of France; South-Westerly in Algeria. Subsequently veering to the South-Eastward or Southward in Ireland; shifting to the South-Westward in Scotland. South-Easterly gale springing up at Brindisi, and South-Westerly gale at Oran.

Barometer highest, 30·6 ins. and upwards in Lapland; 30·1 ins. and upwards in an anticyclone embracing all the more northern and eastern parts of the Continent. Lowest, 29·5 ins. and less in a large depression lying over the western parts of the Mediterranean. Depression inclined to disperse later; new disturbance—small and very shallow—appearing off the south-west of Ireland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week, when a large anticyclone lay over northern and eastern Europe, the distribution of pressure over the more western countries was rather irregular, the winds being light and variable, and the weather dull and misty, with rain or snow in places. After the 12th, a well-marked depression, which appeared originally off the south-west of our Islands, moved in a south-easterly and southerly direction to Spain and Algeria, the disturbance having little effect upon our own weather, but producing very heavy falls of rain in many parts of southern Europe, with gales from various quarters at several of the Mediterranean stations. As the depression passed southwards a new anticyclone spread over the United Kingdom from the Atlantic, the system ultimately uniting with the area previously existing over northern Europe. Easterly or North-Easterly winds now set in over our Islands and all the more northern parts of the Continent, with a gradual reduction in temperature, and with showers of snow or sleet in the northern and eastern parts of Great Britain. Towards the close of the week the depression over Algeria began to move slowly north-eastwards, while secondary systems appeared on its northern side, the latter occasioning freshening North-Easterly winds on our own southern coasts, with falls of snow or sleet in many parts of England.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 8.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	0·4	- 5·8	1	- 13	SOUTHPORT	6·5	?	12	?
OSWALDKIRK (Yorkshire)	5·4	- 2·8	10	- 5	MANCHESTER (Oldham Road)	0·3*	?	1*	?
WORKSOP	2·5	- 5·1	5	- 10	COLWYN BAY				
THURCASTON (Leicestershire)	3·5	- 5·4	6	- 10	NEWQUAY	14·3	+ 3·3	25	+ 5
MARGATE	2·5	- 7·0	4	- 12	TORQUAY	2·3*	- 11·1	4*	- 19
WESTBOURNE (Sussex)	2·0*	- 10·7	4*	- 17	ARLEY COTTAGE (County Cavan)	12·2	+ 2·0	23	+ 4
BRIGHTON	0·9	- 10·5	2	- 18	GUERNSEY	7·1*	- 3·2	12*	- 6
EASTBOURNE	1·0	- 11·0	2	- 20					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WYMAN & SONS, LTD. LITH., 63, CARTER LANE.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV. No. 3.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 23RD, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 14.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	46	17	38·2	27·4	33·0	5 below	0	− 6	63	+20	3	−14	145	+17
	1. SCOTLAND, EAST	42	13	35·9	26·1	31·7	5 below	0	− 7	72	+27	0	−20	157	+24
	2. ENGLAND, N.E.	42	25	37·7	30·2	34·1	4 below	0	− 6	55	+13	0	−18	124	+ 1
	3. ENGLAND, EAST	39	19	35·3	27·4	31·5	6 below	0	− 6	74	+25	0	−19	143	+ 1
	4. MIDLAND COUNTIES	39	16	34·5	27·3	31·1	6 below	0	− 8	76	+28	0	−24	159	+19
	5. ENGLAND, SOUTH	41	15	35·4	27·2	31·4	8 below	0	− 9	74	+35	8	−22	114*	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	42	17	38·1	28·2	33·3	6 below	0	− 9	61	+28	3	−24	125	+29
	7. ENGLAND, N.W.	44	21	37·7	29·3	33·7	6 below	0	− 7	58	+23	1	−21	117	+15
	8. ENGLAND, S.W.	42	15	36·6	27·6	32·3	8 below	0	−13	68	+40	17	−23	96	+13
	9. IRELAND, NORTH	44	16	38·8	28·6	33·9	6 below	0	−12	57	+28	7	−28	123	+37
	10. IRELAND, SOUTH	45	20	39·5	29·9	34·9	7 below	0	−18	50	+27	22	−31	94	+25
	—CHANNEL ISLANDS	47	29	41·7	33·5	37·8	6 below	0	−20	29	+16	44	−20	33	+ 4

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 14.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	4	9 less	12	− 3	1·1	− 2·8	8	+ 3	16	+ 5	21	+ 7	15	+ 5
	1. SCOTLAND, EAST	4	4	2 less	11	0	1·0	− 0·9	9	+ 1	18	+ 2	16	− 7	11	− 5
	2. ENGLAND, N.E.	7	5	0 (average)	18	+ 7	1·7	+ 0·4	14	+ 6	25	+ 9	20	− 5	13	− 3
	3 ENGLAND, EAST	5	4	1 less	16	+ 5	1·8	+ 0·5	6	− 5	11	− 9	13	− 18	8	− 11
	4. MIDLAND COUNTIES	3	1	4 less	13	+ 2	1·6	0·0	12	+ 2	22	+ 2	16	− 13	10	− 8
	5. ENGLAND, SOUTH	3	1	5 less	12	+ 2	1·7	− 0·2	10	− 1	17	− 2	17	− 15	10	− 9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	1	12 less	7	− 6	1·2	− 2·6	20	+12	36	+20	37	+ 14	24	+ 3
	7. ENGLAND, N.W.	3	1	6 less	10	− 1	0·7	− 1·4	16	+11	28	+20	20	− 1	16	0
	8. ENGLAND, S.W.	2	1	8 less	10	− 2	1·6	− 1·1	19	+ 7	31	+10	33	− 3	19	− 2
	9. IRELAND, NORTH	2	1	7 less	10	− 3	0·9	− 1·6	19	+ 9	30	+11	39	+ 10	25	+ 7
	10. IRELAND, SOUTH	2	1	8 less	10	− 2	1·9	− 0·9	24	+12	41	+19	49	+ 12	30	+ 7
	—CHANNEL ISLANDS	5	3	5 less	15	+ 1	2·0	− 0·3	9	− 9	14	−14	28	− 19	11	− 11

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, and the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very cold and changeable. Frequent and rather heavy snow showers occurred in the north and east of Great Britain, and occasional slight falls of snow in the west and south-west. Thunder and lightning were experienced at some of the southern stations towards the end of the week.

Temperature was below the mean in all districts, the deficit ranging from 4° in England N.E. to 6° in most of the western districts and over central and eastern England, and to 8° in England S. and S.W. The highest of the maxima, which occurred on somewhat irregular dates, ranged from 47° in the Channel Islands, and 46° in Scotland N. to 39° in England E. and the Midland counties. The lowest of the minima were recorded either on the 18th or 23rd, and varied from 13° in Scotland E., 15° in England S. and S.W., and 16° in the Midland counties and Ireland N. to 21° in England N.W., 25° in England N.E., and 29° in the Channel Islands.

Rainfall (almost all melted snow) was less than the mean in all districts excepting England N.E. In all except the northern and eastern parts of the Kingdom and in the Channel Islands the amounts measured were very small.

Bright Sunshine varied a good deal in different localities, but was, as a whole, in excess of the mean, especially in the west. The percentage of the possible amount of duration ranged from 41 in Ireland S., and 36 in Scotland W., to 17 in England S., 16 in Scotland N., 14 in the Channel Islands, and to 11 in England E.

Barometer and Wind.—During the earlier part of the week the distribution of pressure was changeable, and somewhat irregular, with winds mostly between North-West and North-East. By Wednesday, however, a well-defined anticyclone had appeared over Scotland, and Easterly and North-Easterly winds, fresh or strong in many places, prevailed very generally. During Thursday and Friday pressure gave way decidedly, and the passage of a depression southwards over Denmark and Germany caused strong winds or gales from the North-Eastward in all parts of our Islands. At the end of the week the depression was passing away and the gales were subsiding, a new fall of the barometer being reported, however, in the north of Scotland, with a shift of wind to the Westward.

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213 70 1/97 1897.

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 13 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches				
0. SCOTLAND, N.	Sumburgh Head	41	30	39·0	32·1	35·7	− 3·4	0	44	6	0·48	−0·40	*	*	*	*
	Stornoway	43	29	39·7	31·1	35·6	− 3·2	0	45	7	0·47	−0·68	8·1	+ 1·9	16	+ 3
	Wick	41	20	39·3	29·7	34·7	− 3·1	0	51	7	0·30	−0·20	*	*	*	*
	Lairg Ⓢ	46	17	39·1	20·9	30·4	− 6·3	0	81	5	0·25	−0·57	*	*	*	*
	Glencarron Ⓢ	41	19	35·3	24·5	30·1	− 7·1	0	83	4	0·57	−1·68	*	*	*	*
	Fort Augustus Ⓢ	40	19	37·8	25·8	32·0	− 6·2	0	70	6	0·27	−0·76	3·8	+ 0·8	7	0
	Fort William Ⓢ	39	24	37·3	27·8	32·7	− 5·6	0	65	3	0·10	−2·07	13·2	+ 7·8	26	+14
1. SCOTLAND, E.	Nairn	41	19	38·1	24·6	31·6	− 5·6	0	73	5	0·60	+0·18	*	*	*	*
	Aberdeen	41	24	36·4	29·6	33·1	− 4·3	0	62	5	0·45	−0·12	10·2	− 1·6	20	− 3
	Braemar Ⓢ	38	13	32·8	21·0	27·1	− 7·3	0	104	5	0·29	−0·43	10·3†	+ 5·8†	20†	+11†
	Ochtertyre Ⓢ	42	21	39·4	24·9	32·4	− 4·1	0	67	2	0·03	−1·07	*	*	*	*
	Leith	40	27	37·7	29·9	34·0	− 4·8	0	56	4	0·28	−0·16	*	*	*	*
	Marchmont Ⓢ	39	20	36·7	26·7	31·9	− 4·4	0	71	5	0·79	+0·16	14·5	+ 5·3	27	+ 9
2. ENGLAND, N.E.	Alnwick Castle	42	26	37·7	30·5	34·2	− 3·7	0	55	7	0·56	+0·06	*	*	*	*
	Durham	39	25	37·5	29·0	33·4	− 3·4	0	60	7	0·39	−0·08	13·0	+ 3·0	24	+ 5
	Shields	42	27	38·6	30·4	34·7	− 3·7	0	51	7	0·43	−0·02	*	*	*	*
	Scarborough Ⓜ	41	26	38·1	31·5	34·9	− 3·3	0	50	7	0·57	+0·11	*	*	*	*
	York	39	25	36·9	28·0	32·6	− 4·9	0	66	5	0·33	−0·12	14·8	+ 8·1	26	+14
	Spurn Head	40	27	37·1	32·0	34·7	− 3·3	0	51	7	0·39	+0·04	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	38	24	36·0	27·4	31·9	− 5·0	0	71	7	0·43	−0·05	2·1	− 8·1	4	−15
	Yarmouth	39	25	35·7	28·4	32·2	− 5·1	0	69	5	0·48	0·00	*	*	*	*
	Geldeston	39	24	36·3	28·0	32·3	− 5·6	0	68	5	0·41	+0·01	6·4	− 5·3	11	−10
	Cambridge	37	20	34·6	25·9	30·4	− 6·1	0	81	4	0·35	−0·02	7·9	− 3·1	14	− 6
	Rothamsted	36	19	33·7	27·1	30·5	− 6·5	0	81	4	0·08	−0·50	8·5	− 1·6	15	− 3
4. MIDLAND COUNTIES	Harrogate Ⓜ	38	24	35·1	28·9	32·1	− 4·5	0	69	4	0·25	?	15·4	?	28	?
	Bawtry (Hesley Hall)	37	23	34·9	28·0	31·6	− 5·9	0	73	5	0·24	−0·21	*	*	*	*
	Loughborough	39	24	35·1	28·9	32·1	− 5·7	0	69	4	0·20	−0·28	*	*	*	*
	Stamford (Duddington)	37	21	34·0	27·0	30·6	− 6·3	0	80	5	0·31	−0·17	*	*	*	*
	Cheadle Ⓜ	37	23	34·4	27·3	31·0	− 5·6	0	77	2	0·05	−0·62	*	*	*	*
	Shirley (near Solihull)	36	23	33·5	27·4	30·6	− 6·6	0	80	4	0·08	?	*	*	*	*
	Churchstoke Ⓜ	38	20	34·8	26·4	30·8	− 6·9	0	78	0	—	−0·67	14·7	+ 4·5	26	+ 7
	Hereford Ⓜ												*	*	*	*
	Cirencester	38	16	34·7	24·7	29·9	− 7·4	0	85	0	—	−0·72	15·4	+ 4·2	27	+ 7
	Oxford	37	23	34·4	27·1	30·9	− 7·3	0	78	3	0·13	−0·37	9·9	− 0·7	17	− 2
5. ENGLAND, S.	London	39	22	35·4	28·0	31·9	− 7·1	0	71	4	0·14	−0·35	3·6†	− 2·0†	6†	− 4†
	North Foreland	41	25	35·9	29·9	33·0	− 6·0	0	63	4	0·14	?	*	*	*	*
	Dungeness	37	23	35·3	27·4	31·5	− 7·7	0	74	4	0·10	−0·50	*	*	*	*
	Hastings (St. Leonards)	37	25	34·7	28·2	31·6	− 7·6	0	73	3	0·20	−0·44	11·0	− 2·5	19	− 5
	Southampton	38	22	36·0	25·7	30·9	− 9·0	0	78	3	0·14	−0·62	9·7	− 2·1	16	− 5
	Hurst Castle	38	24	36·1	27·9	32·2	− 8·2	0	69	3	0·05	−0·63	*	*	*	*
	Stowell Ⓜ	36	15	33·7	23·5	28·8	− 9·9	0	92	2	0·11	−0·67	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	42	27	38·6	30·4	34·7	− 5·2	0	51	2	0·27	−1·68	*	*	*	*
	Glasgow	39	24	36·5	28·7	32·8	− 5·8	0	64	1	0·01	−0·91	12·1	+ 7·2	22	+12
	Ardrossan	42	25	38·7	28·3	33·7	− 6·3	0	58	0	—	−0·93	*	*	*	*
	Glenlee Ⓢ	41	17	36·6	24·3	30·7	− 6·3	0	79	2	0·07	−1·57	*	*	*	*
	Douglas (Isle of Man)	42	25	39·9	29·4	34·8	− 5·5	0	50	1	0·02	−1·00	27·8	+16·8	50	+29
7. ENGLAND, N.W.	Stonyhurst	39	23	35·8	26·9	31·5	− 6·1	0	74	4	0·08	−0·87	18·3	+10·1	33	+18
	Blackpool Ⓜ	41	23	38·2	27·0	32·8	− 5·3	0	64	1	0·04	−0·64	21·6	+13·2	38	+23
	Manchester (Prestwich)	39	21	36·1	29·0	32·7	− 5·3	0	65	4	0·14	−0·57	9·2	?	16	?
	Liverpool Obsy. (Bidston)	39	26	36·6	29·9	33·4	− 5·7	0	60	2	0·05	−0·46	*	*	*	*
	Llandudno Ⓜ	44	24	40·7	30·1	35·6	− 5·7	0	45	2	0·05	−0·60	*	*	*	*
	Holyhead	43	30	39·0	32·6	35·9	− 6·2	0	43	2	0·09	−0·65	*	*	*	*
8. ENGLAND, S.W.	Llandovery	40	15	36·3	23·3	30·1	− 7·5	0	83	1	0·05	−1·14	*	*	*	*
	Pembroke	42	29	38·3	32·0	35·3	− 6·8	0	47	1	0·04	−0·83	24·5	+12·5	42	+21
	Clifton	36	23	34·1	28·0	31·2	− 8·4	0	76	2	0·04	−0·76	*	*	*	*
	Arlington (N. Devon)	39	21	35·0	25·6	30·5	− 9·5	0	81	3	0·09	−0·83	*	*	*	*
	Cullompton Ⓜ	39	18	36·5	25·4	31·2	− 8·7	0	76	2	0·10	−0·52	19·0	+ 9·3	32	+15
	Falmouth	42	28	38·4	31·1	34·9	− 8·4	0	50	2	0·22	−0·92	16·2	+ 4·6	27	+ 6
	Plymouth	40	25	37·0	27·4	32·4	− 9·4	0	67	1	0·11	−0·79	16·0	+ 4·8	27	+ 8
	Prawle Point	42	24	37·4	27·6	32·7	− 8·6	0	65	2	0·04	−0·62	*	*	*	*
9. IRELAND, N.	Malin Head	41	29	40·6	33·7	37·3	− 4·3	0	33	3	0·13	?	*	*	*	*
	Londonderry	42	22	38·2	27·1	32·9	− 7·1	0	64	3	0·15	−0·77	*	*	*	*
	Edenfel (Omagh)	40	17	36·9	25·6	31·5	− 6·5	0	74	0	—	−0·81	*	*	*	*
	Belmullet	44	27	41·6	30·6	36·3	− 6·7	0	40	4	0·33	−0·93	*	*	*	*
	Markree Castle	43	20	39·7	26·0	33·1	− 6·4	0	62	2	0·05	−0·77	21·5	+12·0	38	+20
	Armagh	39	16	36·1	26·2	31·4	− 7·6	0	74	0	—	−0·60	12·9	+ 3·1	23	+ 4
	Donaghadee	42	25	40·1	32·0	36·2	− 4·1	0	41	2	0·08	−0·62	*	*	*	*
	Edgeworthstown	40	20	36·9	28·0	32·6	− 5·8	0	66	3	0·08	−0·60	*	*	*	*
10. IRELAND, S.	Dublin	42	25	38·7	31·2	35·1	− 6·6	0	48	3	0·28	−0·27	17·7	+ 4·5	31	+ 7
	Parsonstown	40	21	37·0	28·0	32·7	− 7·2	0	65	3	0·06	−0·64	27·3	+15·9	48	+27
	Kilkenny	40	20	37·1	26·9	32·2	− 8·8	0	69	2	0·06	−0·74	*	*	*	*
	Roche's Point	44	27	41·7	32·1	37·1	− 6·2	0	34	1	0·15	−1·07	*	*	*	*
	Valencia	45	27	42·1	32·6	37·5	− 7·3	0	34	2	0·06	−1·35	25·6	+13·0	44	+22
	Killarney	43	23	40·6	28·7	34·9	− 8·5	0	50	2	0·07	?	*	*	*	*
	Foynes	?	24	?	29·8	?	?			1	0·27	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	47	29	43·9	34·0	39·2	− 6·2	5	31	4	0·20	−0·64	15·4	?	26	?
	Jersey	41	29	39·4	33·0	36·3	− 5·7	0	40	5	0·31	−0·43	6·9	− 8·9	11	−16

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

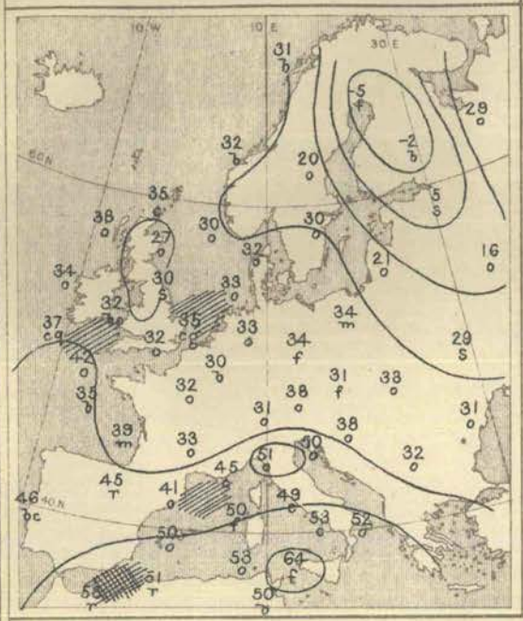
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 17th January.

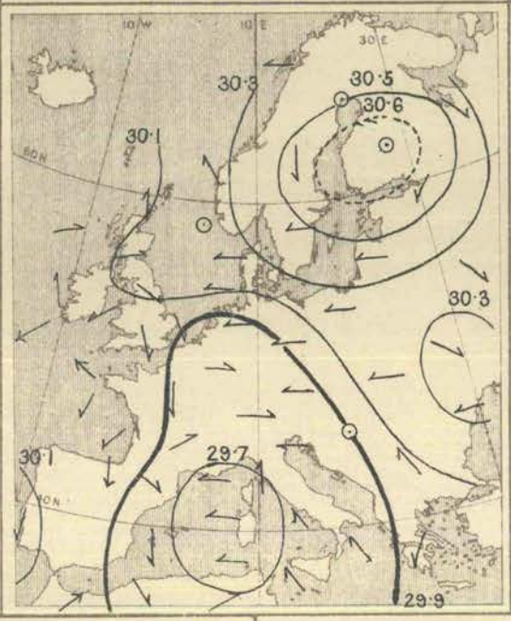
Temperature and Weather.

8 a.m.

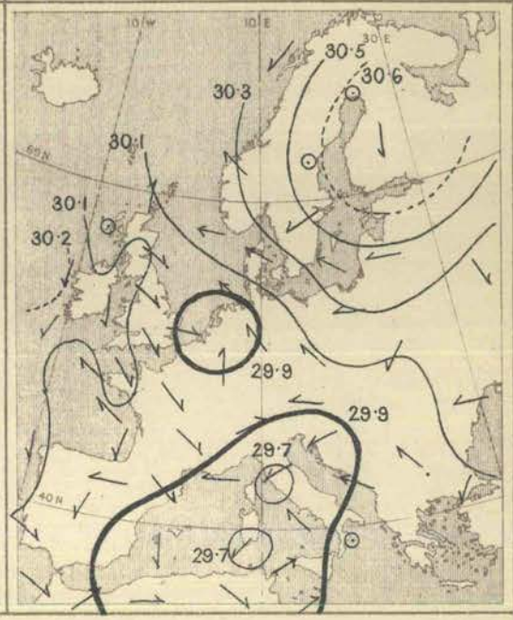


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over Lapland, Norway, and the north and west parts of our Islands; cloudy or overcast, and very changeable, elsewhere, with cold rain or snow locally in various parts of our Islands. Some rainfall at the northern stations later, and large quantities locally over southern Europe.

Temperature fallen over England. Morning readings highest, 64° at Palermo, and exceeding 50° over the southern sides of the Mediterranean generally; 46° at Lisbon and Bilbao, 42° at Scilly. Lowest, -5° Fahr. at Haparanda, +5° at St. Petersburg, 16° at Moscow, 29° at Kieff; 30° to 33° over central France, 20° to 32° over central England, and air very keen. Very sharp frost over our inland districts at night—the sharpest this year.

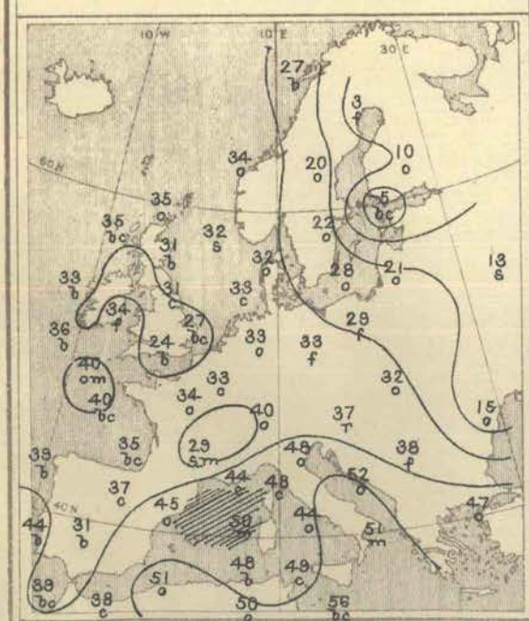
Wind light and anticyclonic over northern Europe and the greater part of the British Islands; Easterly over the Baltic and Denmark, Northerly over the east of England; South-Easterly and strong at Scilly and Roche's Point, but North-Easterly at Valencia (Ireland). A cyclonic circulation of light breezes prevalent over the Atlantic. Not much change later beyond an increase of wind from South-East on the eastern shores of the North Sea.

Barometer highest, 30·6 ins. and more to 30·2 ins. over northern Europe and the Baltic, and exceeding 30·0 ins. in a ridge over the United Kingdom. Lowest, below 29·7 ins. over the Mediterranean, and below 29·8 ins. in a hollow spreading thence over western Germany and the east of France. A definite depression formed over the Netherlands later, and barometer rising over the United Kingdom.

Monday, 18th January.

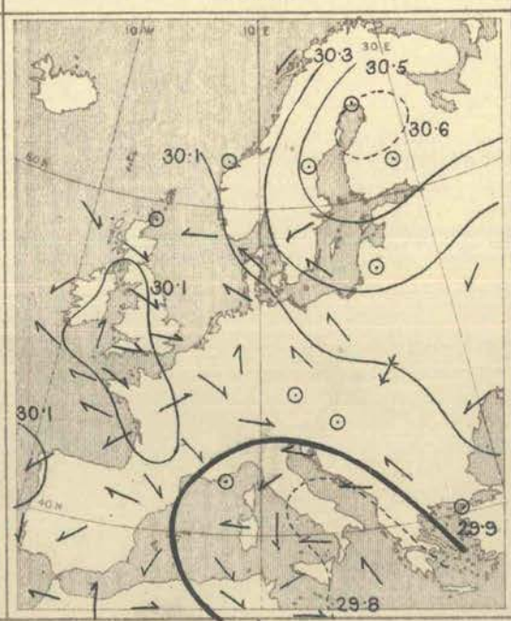
Temperature and Weather.

8 a.m.

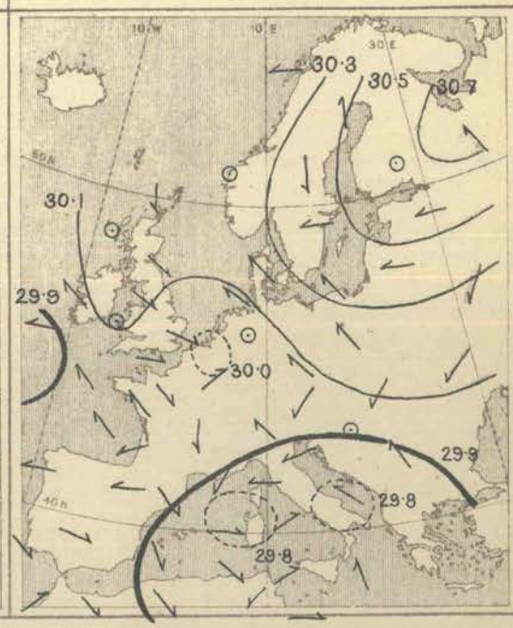


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Ireland and England, as well as on the Atlantic coasts of France and over the Peninsula; cloudy or overcast elsewhere, with fog in a great many places, snow in some parts of Scotland and northern Europe, rain at Vienna. Cold showers falling later over all the northern parts of our Islands and Norway; large quantities of rain at Nice.

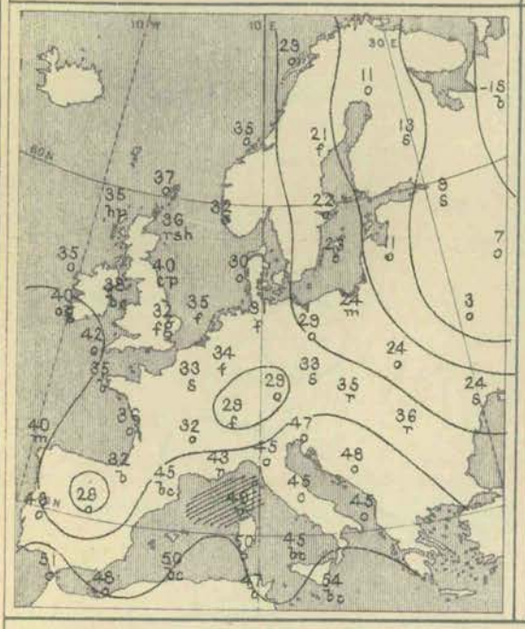
Temperature risen at the Scotch stations, fallen decidedly over England and the south of Ireland. Morning readings highest, 56° to 44° at the Mediterranean stations, 44° at Lisbon, 40° at Scilly. Lowest, -5° Fahr. at Hangö, +3° at Haparanda, 10° at Kuopio, 13° at Moscow, and much below the freezing point at all the Swedish stations; 22° to 28° over the central parts of England, 29° at Parsonstown and at Lyons. Rising rather decidedly over Ireland and England later, and the air becoming damper.

Wind (1) moderate from the Eastward and South-Eastward over the Baltic and the eastern shores of the North Sea; (2) very light and anticyclonic over the most northern countries of Europe, and also over the British Islands; (3) light, but cyclonic, over the Mediterranean, becoming Easterly to South-Easterly on our western coasts later; no great change elsewhere.

Barometer highest, 30·6 ins. and more to 30·1 ins. in an anticyclone lying over northern Europe, and exceeding 30·1 ins. in another covering a large part of the British Islands and France; exceeding 30·2 ins. over the Azores also. Lowest, 29·8 ins. and less over Italy, the Adriatic, and Greece. Gradients moderate over Scandinavia, slight and irregular elsewhere. A depression appearing off our south-west coasts later, but northern anticyclone increasing in intensity, and spreading towards Great Britain.

Tuesday, 19th January.

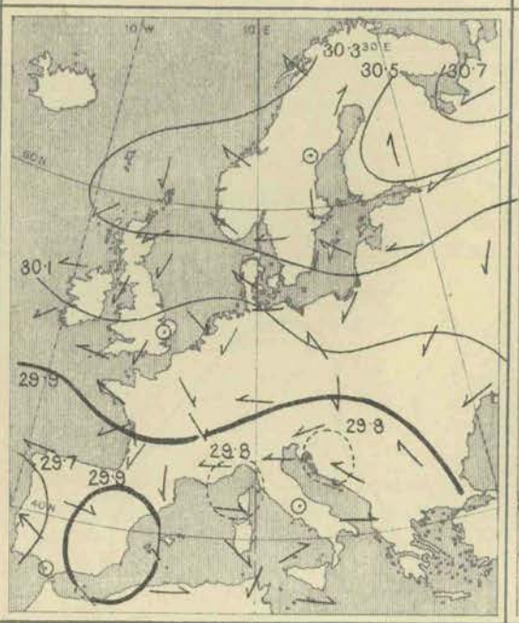
Temperature and Weather. 8 a.m.



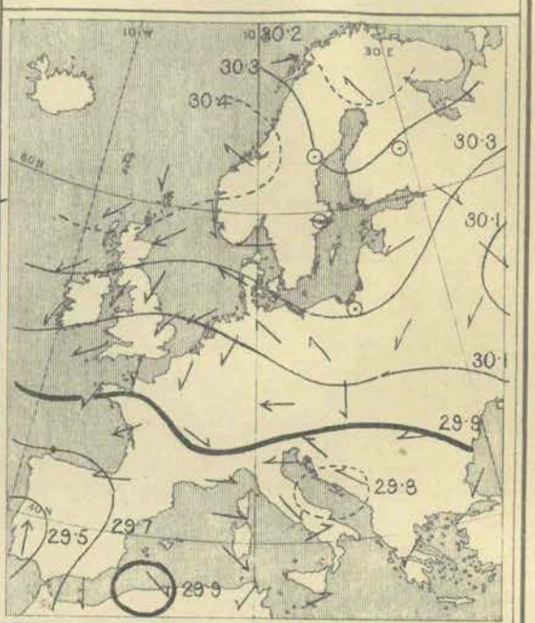
Weather in morning fine on our north-west coasts, but cloudy or dull in all other parts of the Kingdom, with showers of snow or sleet in a few places. Dull at most of the Continental stations, with rain in several parts of Austria, northern Italy, and the south of France, and with snow at several of the Russian stations, as well as Paris and Prague. Rain or sleet falling later in most parts of Great Britain, and also over central Ireland.

Temperature risen in our Islands, Scandinavia, and Finland; fallen elsewhere. Morning readings highest, 54° at Malta, 51° at San Fernando, and 50° at Cagliari and Algiers. Lowest, -15° Fahr. at Archangel, -4° at Kharkov, +3° at Kiev, and 7° at Moscow; below the freezing point over northern, eastern, and central Europe generally, as well as in some parts of England and in central Spain. Daily maxima below 40° in many parts of our Islands and France, but thermometer reaching 48° at Nice and 54° at Lisbon.

Barometer and Wind. 8 a.m.



6 p.m.

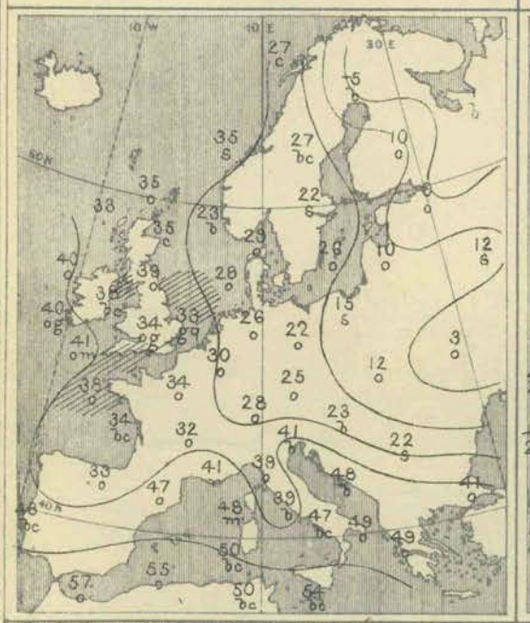


Wind light to moderate from the Eastward or North-Eastward over the greater part of Europe, but North-Westerly over the eastern and central parts of England, and South-Easterly or Southerly over the extreme northern parts of Russia and Scandinavia. Variable over Italy and the Mediterranean. No important change occurring over western Europe during day.

Barometer highest, 30·66 ins. at Archangel; 30·1 ins. and upwards in an anticyclone embracing all the more northern parts of Europe. Lowest, 29·7 ins. and less in a depression lying off the Portuguese coast; 29·8 ins. and less in two other systems, one lying off the south of France, and the other over the northern parts of the Adriatic, and over Croatia. Depression off Portuguese coasts subsequently spreading north-eastwards, and barometer falling over France and our southern coasts.

Wednesday, 20th January.

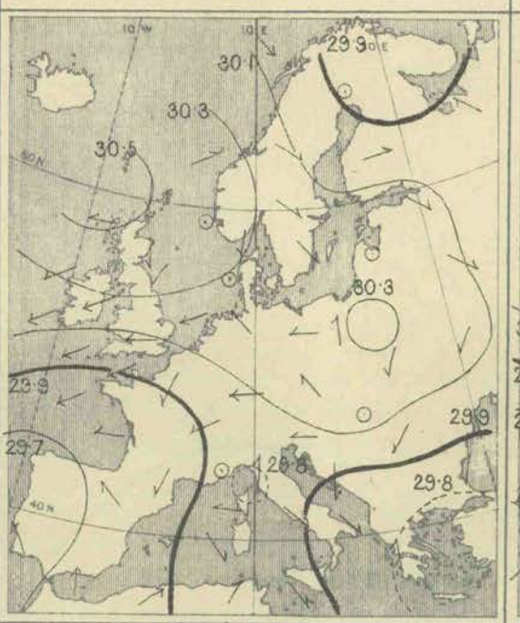
Temperature and Weather. 8 a.m.



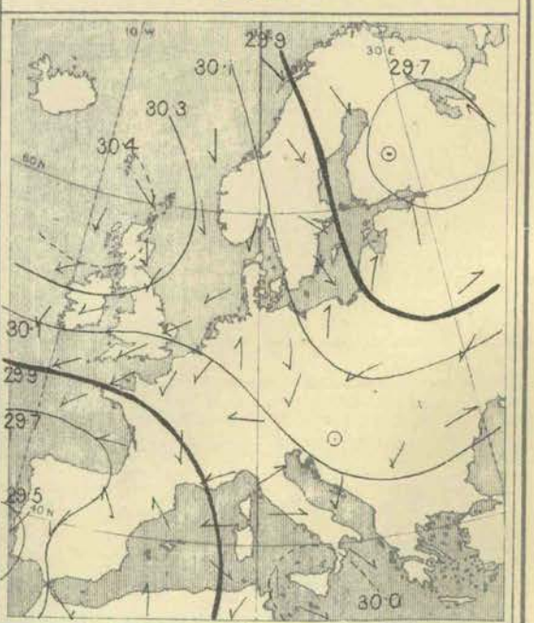
Weather in morning fine and bright over Finland and the north of Russia, as well as in several parts of southern Europe; cloudy or overcast elsewhere, with slight rain at Leith, and some snow over many parts of northern and central Europe, and at Roche's Point. Slight rain and snow over the northern parts of our Islands later, as well as in several parts of Scandinavia, and slight snow showers locally in the south of England, and a large amount of rain reported at Lisbon.

Temperature risen over the most northern countries, fallen decidedly over central Europe. Morning readings highest, 57° at Nemours, 54° at Malta, and exceeding 40° at most of the Mediterranean stations, at Lisbon, and at Bilbao; 41° at Scilly and Malin Head, 38° at Stornoway. Lowest, (1) -5° Fahr. at Haparanda, -1° at Archangel, and 0° zero at St. Petersburg, 12° at Helsingfors and Moscow; (2) -4° at Kharkov, +3° at Kiev, 12° at Warsaw, 19° at Munich, 22° at Berlin, 30° at Brussels. Falling still lower over central Europe and the east and south of our Islands later, but tending to rise over Scotland, and touching 42° at Stornoway.

Barometer and Wind. 8 a.m.



6 p.m.

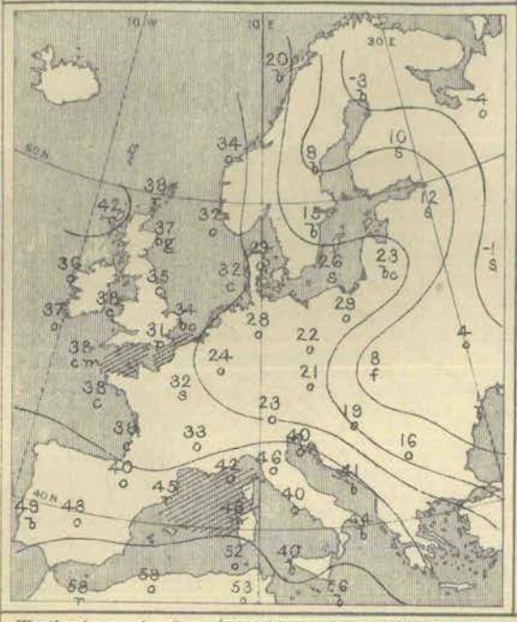


Wind North-Westerly over northern Europe. Northerly over Scotland and the eastern shores of the North Sea, North-Easterly to Easterly in most parts of central and western Europe, and blowing strongly at some of our southern stations. Becoming still stronger from the Eastward over Ireland and England later.

Barometer highest, 30·5 ins. and more to 30·2 ins. in a complex anticyclonic system lying over the northern parts of our Islands, the North Sea, Germany, and the south of Scandinavia. Lowest, (1) below 29·7 ins. in a depression advancing towards Portugal from the Atlantic; (2) below 29·8 ins. in another over Greece and Asia Minor; and (3) below 29·9 ins. in a third over Lapland and the Kola Peninsula. The south-western depression advancing eastwards later, and further disturbances appearing in the far north.

Thursday, 21st January.

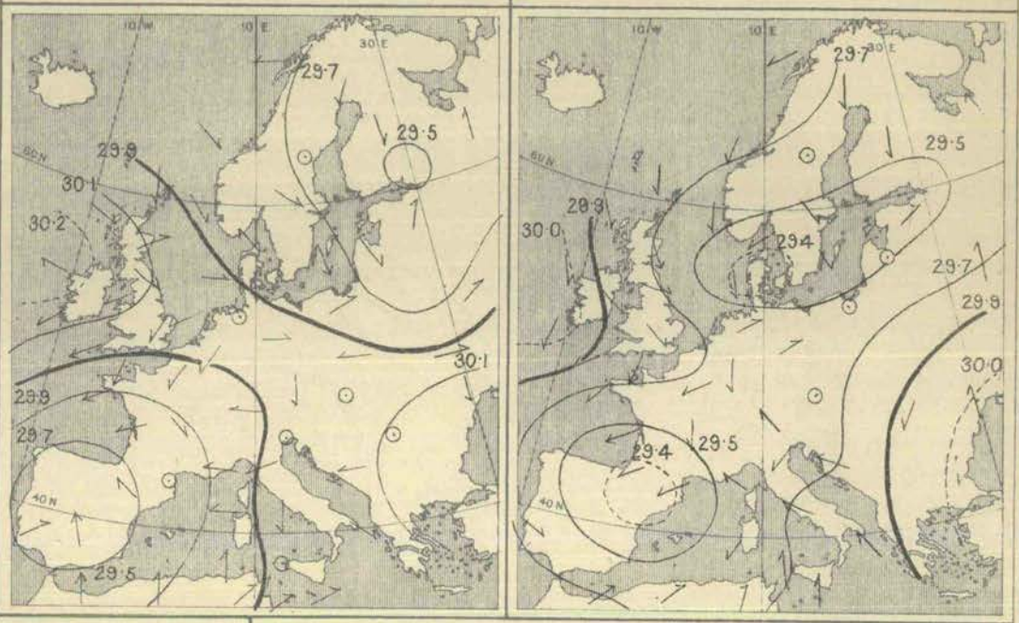
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over Lapland, Sweden, the Irish Sea, the south of Russia, and the south-eastern parts of the Mediterranean; cloudy or overcast elsewhere, and very changeable generally. Snow falling over Russia, and occasionally in some parts of our Islands, but rain both in the north of Scotland and at several of the Spanish stations and Nemours. A heavy fall of rain at Perpignan later, and cold showers over many parts of the British Islands and north-western Europe.

Temperature changing very fitfully; fallen in most of the western countries, risen over the northern parts of Germany and the Baltic Provinces. Morning readings highest, (1) 59° at Algiers, 56° at Malta, and exceeding 40° on the coasts of southern Europe generally; 38° at Jersey and Roche's Point; (2) 42° at Stornoway, 39° at Wick. Lowest, −4° Fahr. at Archangel, and also at Kharkov, −3° at Haparanda, −2° at Odessa, and −1° at Moscow; +8° to 20° over the northern and eastern parts of Scandinavia, as well as over the eastern parts of Austro-Hungary; 21° at Brussels, 28° at Belfort, 30° at Dungeness. Changing but little over the United Kingdom later.

Barometer and Wind. 8 a.m. 6 p.m.

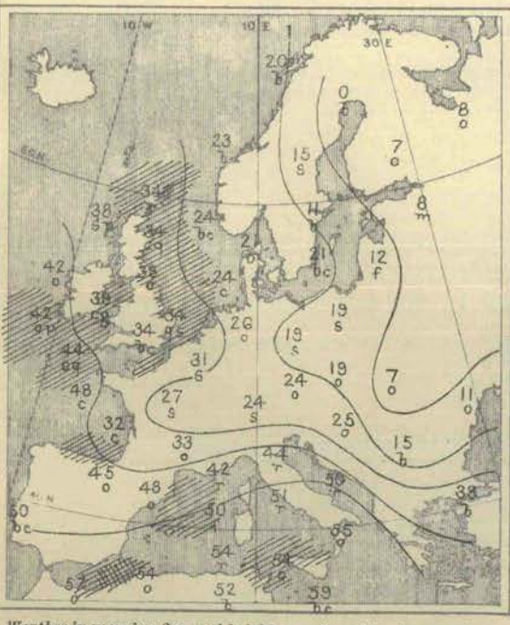


Wind (1) North-Westerly to Northerly over Scandinavia, the Baltic, and Scotland, but Southerly over the northern parts of Russia; (2) Easterly and North-Easterly, strong, over the southern parts of our Islands, the English Channel, and the Bay of Biscay, but South-Easterly over the eastern parts of Spain, South-Westerly at Lisbon; (3) light and anticyclonic over the north-west of our Islands, and also over south-eastern Europe. Backing somewhat over England later (very temporarily), but veering Northward on the Norwegian coast.

Barometer highest, 30·2 ins. and more to 30·1 ins. in an anticyclone spreading in from the Atlantic over the north-west of our Islands, and apparently in another lying over the Black Sea and south-eastern Europe, the two being united by a "col" stretching from Hungary to the Netherlands and the east of England. Lowest, 29·6 ins. to 29·5 ins. in a complex depression over Finland and the Baltic Provinces, and in another over the Spanish Peninsula; a small shallow disturbance apparent over the north of Denmark. The northern disturbances undergoing great modification later and moving southwards.

Friday, 22nd January.

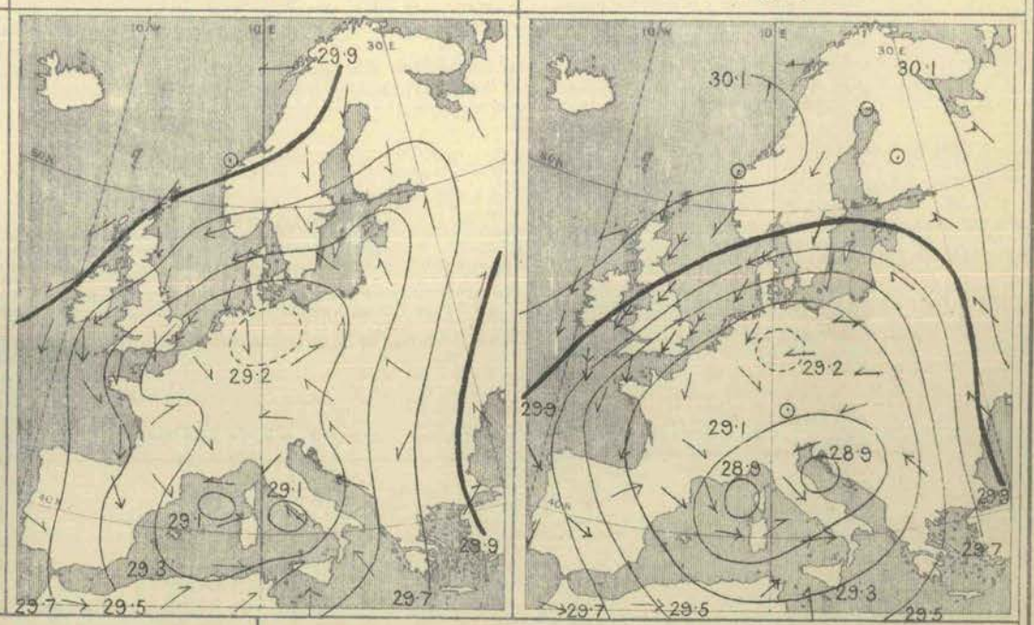
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over Scandinavia, as well as at Lisbon, at Constantinople, and at Hermanstadt; very changeable elsewhere, much snow being reported over Germany, and frequent snow showers over various parts of the British Isles, rain over the south of France, the north of Italy, and at several other Mediterranean stations. Snow falling later in nearly all parts of the British Islands, heaviest in the east; thunder and lightning occurring at several stations in France and the south of England, and a good deal of rain falling at Biarritz.

Temperature falling decidedly over the Baltic, the west of Norway, and the west of Scotland, rising over southern and central Europe. Morning readings highest, 50° and more on the southern shores of the Mediterranean, 50° at Lisbon, 44° at Scilly, 42° to 40° on the Irish coasts. Lowest, −3° Fahr. at Helsingfors, and varying from 0° zero to +10° over the greater part of Russia; 10° to 24° over Scandinavia and central Europe, 27° at Paris, 32° to 35° over the inland parts of England. Falling decidedly over the British Islands later—sharp frost at night.

Barometer and Wind. 8 a.m. 6 p.m.

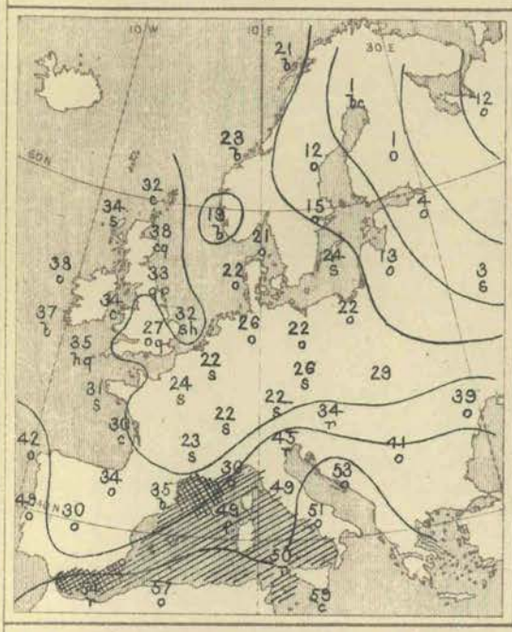


Wind cyclonic over nearly the whole of Europe. Easterly to Northerly over the northern and north-western countries, and blowing hard in many places, North-Westerly to Westerly in the extreme west, South-Easterly and Southerly (and light) over the eastern countries. Complex cyclonic circulations reported over southern Europe and the Mediterranean. Strong gales from the North-Eastward prevalent over our Islands and the North Sea later.

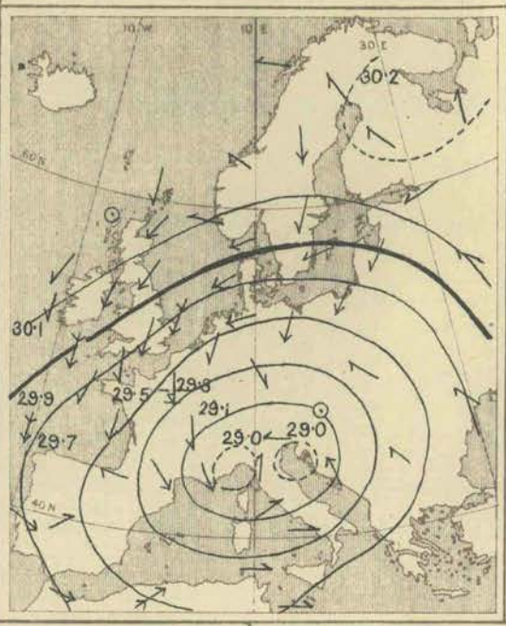
Barometer highest, 29·9 ins. and more to 29·8 ins. over Russia, the north of Scandinavia, the north-western and western parts of Ireland and Scotland, and apparently off the south-west coast of Portugal also. Lowest, 29·1 ins. to 29·2 ins. in a complex depression over southern Europe, and in another over the Netherlands, causing steep gradients for North-Easterly winds over the British Isles. Latter system moving south-westwards and southwards later, and barometer rising fast over north-western Europe.

Saturday, 23rd January.

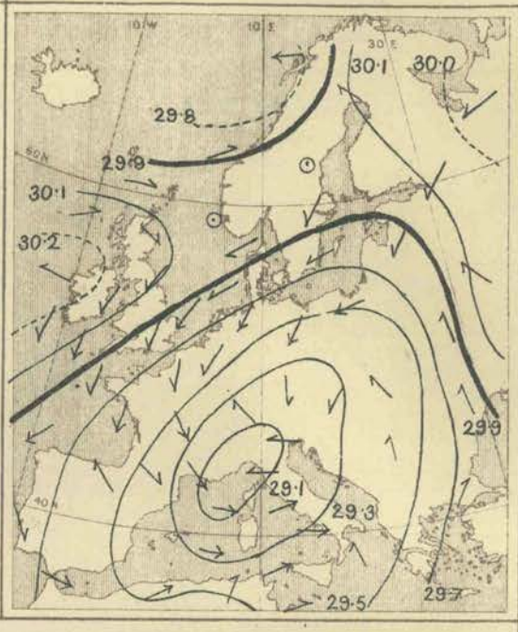
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair as a whole over Ireland, the Irish Sea, Scotland, and Norway, cloudy, squally, and very unsettled elsewhere, with snow over England, France, Germany, the Baltic, and some parts of Russia, rain on the southern shores of the Mediterranean and in the south of Russia. Snow showers later over many parts of Great Britain and in some parts of France.

Temperature fallen decidedly over the British Islands and France. Morning readings highest, 59° to 50° on the southern shores of the Mediterranean, 49° to 42° on the western shores of the Iberian Peninsula, 39° to 37° on the west coast of Ireland. Lowest, -12° Fahr. at Archangel, +1° at Kuopio and Haparanda, 3° at Moscow, 4° at St. Petersburg, and below 20° Fahr. over Sweden and nearly the whole of Russia; 20° to 25° over north Germany and France, 26° to 28° over England. Beginning to rise over Scotland later, but falling over England and Ireland at night—to 20° at York and Parsonstown, and to 23° at Cambridge.

Wind light and very variable over Scotland and the extreme northern parts of the Continent, Easterly to North-Easterly over the Baltic and the North Sea, and rather more Northerly over England, Ireland, and France. Blowing hard over the North Sea and some parts of our Islands and France—especially on our own eastern coasts. Gale moderating slowly later, but continuing on our south-east coasts until after 6 p.m.

Barometer highest, 30·2 ins. and more over the north of Russia, and exceeding 30·1 ins. over Scandinavia, Scotland, and the west of Ireland. Lowest, below 29·0 ins. in a complex depression having its central area over the Riviera and northern parts of the Mediterranean and Adriatic. Rising fast over England, Ireland, and France later, but beginning to fall again in Norway and the North of Scotland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus : ⟶⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

In the course of this week there have been very great changes in the distribution of pressure over Europe. The week commenced with a strongly-marked anticyclone lying over northern Europe, while depressions were found over the Mediterranean and southern Europe, and a secondary system over the Netherlands. On Tuesday the northern anticyclone broke up, but a new system appeared off our north-western and northern coasts, while low pressure areas appeared in the south-west and south, and others over Scandinavia and the north of Russia. The latter increased greatly in intensity and after undergoing considerable modification in form and area moved south-westwards and southwards to France, and uniting with the systems over the Mediterranean formed a vast complex disturbance, which on Friday and Saturday covered the whole of central and southern Europe. While this change was in progress pressure rose in the extreme north-west, and biting North-Easterly gales with squalls of snow, hail, and cold rain, prevailed over north-western Europe on Friday and Saturday, and were accompanied by thunder and lightning in some localities.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 14.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	1·8	- 5·6	3	- 12	SOUTHPORT	23·9	?	43	?
OSWALDKIRK (Yorkshire)	14·8	+ 6·2	26	+ 10	MANCHESTER (Oldham Road)	3·8*	?	7*	?
WORKSOP	10·9	+ 2·7	19	+ 4	COLWYN BAY	16·3	?	29	?
THURCASTON (Leicestershire)	6·7	- 2·3	12	- 4	NEWQUAY	16·3	+ 3·5	27	+ 7
MARGATE	7·3	- 2·5	12	- 5	TORQUAY	19·8*	+ 6·3	33*	+10
WESTBOURNE (Sussex)	11·5*	- 1·2	19*	- 3	ARLEY COTTAGE (County Cavan)	21·7	+10·9	39	+19
BRIGHTON	15·6	+ 4·2	26	+ 6	GUERNSEY	3·4*	- 7·6	6*	-13
EASTBOURNE	11·3	- 0·3	20	- 1					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 4.] *Third Series.* WEEK ENDING SATURDAY, JANUARY 30TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 20.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	17	36·8	27·1	32·1	6 below	0	− 7	69	+26	3	−21	214	+43
	1. SCOTLAND, EAST	44	14	35·9	25·4	30·8	6 below	0	− 8	78	+33	0	−28	235	+57
	2. ENGLAND, N.E.	41	19	36·5	26·3	31·6	7 below	0	− 6	73	+32	0	−24	197	+33
	3. ENGLAND, EAST	40	22	36·2	25·8	31·2	7 below	0	− 7	76	+28	0	−26	219	+29
	4. MIDLAND COUNTIES	42	20	36·8	26·5	31·9	6 below	0	− 9	71	+23	0	−33	230	+42
	5. ENGLAND, SOUTH	44	21	38·4	27·4	33·2	6 below	0	− 9	62	+23	8	−31	176	+22
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	42	15	37·8	28·7	33·4	6 below	0	−10	60	+27	3	−34	185	+56
	7. ENGLAND, N.W.	42	18	38·5	29·2	34·0	6 below	0	− 8	56	+21	1	−29	173	+36
	8. ENGLAND, S.W.	45	17	41·1	30·1	35·8	5 below	0	−14	43	+15	17	−37	139	+28
	9. IRELAND, NORTH	45	17	40·7	29·4	35·2	5 below	0	−13	48	+20	7	−41	171	+57
	10. IRELAND, SOUTH	47	19	43·0	30·0	36·8	6 below	3	−10	45	+23	25	−47	139	+48
	—CHANNEL ISLANDS	48	31	44·8	35·6	40·4	4 below	8	−12	26	+13	52	−32	59	+ 9*

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 20.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	9	3 less	18	− 3	2·0	− 3·1	10	+ 4	18	+ 6	31	+ 11	16	+ 6
	1. SCOTLAND, EAST	4	6	1 less	15	0	1·6	− 1·0	10	0	18	0	26	− 6	13	− 3
	2. ENGLAND, N.E.	4	3	2 less	22	+ 7	2·0	+ 0·2	14	+ 4	24	+ 7	34	− 1	16	0
	3. ENGLAND, EAST	5	2	3 less	21	+ 5	2·0	+ 0·2	19	+ 7	31	+10	32	− 11	14	− 5
	4. MIDLAND COUNTIES	4	3	3 less	17	+ 2	1·9	− 0·3	19	+ 8	31	+12	35	− 5	16	− 2
	5. ENGLAND, SOUTH	3	3	4 less	15	0	2·0	− 0·6	24	+12	39	+19	41	− 3	18	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	7	6 less	12	− 6	1·9	− 3·2	16	+ 7	28	+11	53	+ 21	25	+ 10
	7. ENGLAND, N.W.	6	7	0 (average)	16	0	1·4	− 1·4	11	+ 4	19	+ 7	32†	+ 3	18	+ 2
	8. ENGLAND, S.W.	6	6	2 less	16	− 1	2·2	− 1·4	21	+ 8	34	+13	54	+ 5	23	+ 2
	9. IRELAND, NORTH	6	9	1 more	16	− 3	1·8	− 1·5	20	+ 9	34	+13	59	+ 19	28	+ 9
	10. IRELAND, SOUTH	4	5	5 less	14	− 3	2·4	− 1·3	24	+11	40	+17	73	+ 23	33	+ 10
	—CHANNEL ISLANDS	7	8	0 (average)	22	+ 3	2·8	− 0·3	16	− 2	26	− 5	44	− 21	14	− 9

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, and the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather remained changeable and cold, with frequent falls of snow or sleet in all the northern districts. Over the more southern parts of the Kingdom, however, the cold showers were interspersed with considerable intervals of clear sky.

Temperature continued much below the mean, the deficit ranging from 4° in the Channel Islands to 6° in most other districts, and to 7° in England E. and N.E. The highest of the maxima, which were recorded on rather irregular dates, ranged from 48° in the Channel Islands to 41° in England N.E., and to 40° in England E. The lowest of the minima were registered either on the earlier or latter days of the week, and ranged from 14° in Scotland E., 15° in Scotland W., and 17° in Scotland N., England S.W., and Ireland N., to 22° in England E., and to 31° in the Channel Islands.

Rainfall just equalled the mean in England N.W. and the Channel Islands, and slightly exceeded it in Ireland N. In all other districts, however, the fall was less than the mean.

Bright Sunshine exceeded the mean in nearly all districts, but was rather deficient in the Channel Islands. The percentage of the possible duration ranged from 40 in Ireland S., and 39 in England S., to 19 in England N.W., 18 in Scotland N. and E.

Barometer and Wind.—Soon after the commencement of the week a large depression spread over our northern coasts from the northward, while secondary systems appeared over the North Sea. North-Westerly to Northerly winds consequently prevailed over the Kingdom generally, and blew very strongly in the North and North-East, occasionally reaching the force of a gale. By Friday the disturbances had moved slowly eastwards to the Baltic, and the wind had subsided and backed to the Westward or South-Westward very generally. On Saturday a complex area of low pressure covered nearly the whole of our Islands, with South-Easterly winds in the east, and North-Westerly breezes in the west. Late at night the South-Easterly wind increased greatly in force in the north-east of Scotland, and for some hours blew with the force of a gale.

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* The corresponding value in last week's Report should read "−4."

† This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 19 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches				
0. SCOTLAND, N.	Sumburgh Head Ⓢ	42	27	37·1	29·9	33·6	- 5·3	0	59	5	0·66	-0·20	*	*	*	*
	Stornoway	43	22	36·3	27·6	32·1	- 6·8	0	69	7	0·89	-0·21	9·4	+ 1·6	17	+ 2
	Wick	40	23	36·6	27·1	32·0	- 5·9	0	70	7	? 2·32	? +1·82	*	*	*	*
	Lairg Ⓢ	45	17	36·2	23·7	30·2	- 6·5	0	83	5	0·88	+0·06	*	*	*	*
	Glencarron Ⓢ	39	20	35·2	26·1	30·8	- 6·4	0	78	6	0·84	-1·34	*	*	*	*
	Fort Augustus Ⓢ	42	21	37·8	25·9	32·1	- 6·1	0	69	7	0·43	-0·55	8·1	+ 4·1	15	+ 7
	Fort William Ⓢ	41	25	38·3	29·1	33·9	- 4·6	0	57	7	0·38	-1·74	12·9	+ 6·0	23	+10
1. SCOTLAND, E.	Nairn	42	21	36·6	25·9	31·5	- 5·8	0	74	5	0·47	+0·07	*	*	*	*
	Aberdeen	41	22	35·6	27·0	31·5	- 6·1	0	74	6	1·70	+1·10	13·3	+ 0·4	24	0
	Braemar Ⓢ	38	14	32·2	20·2	26·4	- 8·0	0	109	6	0·56	-0·17	4·0†	- 2·2†	7†	- 5†
	Ochtertyre Ⓢ	44	21	37·3	27·3	32·5	- 4·1	0	67	4	0·32	-0·76	*	*	*	*
	Leith Ⓢ	43	22	37·7	27·7	32·9	- 6·0	0	64	3	0·44	-0·04	*	*	*	*
	Marchmont Ⓢ	39	17	35·9	24·0	30·2	- 6·4	0	83	2	0·17	-0·50	13·0	+ 3·0	23	+ 4
2. ENGLAND, N.E.	Alnwick Castle	39	20	36·2	26·6	31·6	- 6·3	0	73	4	0·32	-0·22	*	*	*	*
	Durham	38	19	36·4	24·9	30·9	- 6·4	0	78	3	0·12	-0·34	12·9	+ 1·9	22	+ 2
	Shields	39	20	36·6	26·0	31·5	- 7·4	0	74	4	0·11	-0·36	*	*	*	*
	Scarborough Ⓜ	41	21	36·0	26·0	31·2	- 7·4	0	76	5	0·84	+0·36	*	*	*	*
	York	40	20	37·6	24·6	31·4	- 6·9	0	74	3	0·12	-0·36	15·6	+ 7·6	26	+12
	Spurn Head	37	26	35·9	29·7	32·9	- 5·7	0	64	2	0·08	- 0·29	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	37	23	35·4	25·6	30·7	- 7·1	0	79	5	0·12	-0·36	13·4	+ 1·6	23	+ 3
	Yarmouth	36	22	34·7	26·4	30·7	- 7·0	0	79	6	0·52	+0·03	*	*	*	*
	Geldeston	38	23	36·1	25·5	31·0	- 7·4	0	77	5	0·16	-0·26	18·4	+ 5·5	31	+ 9
	Cambridge	39	23	37·7	25·1	31·7	- 6·5	0	72	4	0·08	-0·31	23·0	+10·8	38	+17
	Rothamsted	40	23	37·0	26·2	31·8	- 5·7	0	71	4	0·15	-0·44	20·0	+ 9·0	33	+14
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	39	20	36·4	26·3	31·6	- 6·5	0	73	2	0·07	-0·40	*	*	*	*
	Loughborough	40	22	37·4	25·9	31·9	- 6·4	0	71	4	0·34	-0·16	*	*	*	*
	Stamford (Duddington)	38	23	35·4	25·9	30·8	- 6·8	0	78	3	0·14	-0·35	*	*	*	*
	Cheadle Ⓜ	38	20	34·5	24·8	29·8	- 7·2	0	85	6	0·57	-0·12	*	*	*	*
	Shirley (near Solihull)	37	20	35·3	25·4	30·6	- 6·9	0	80	5	0·41	?	*	*	*	*
	Churchstoke Ⓜ	39	20	37·8	26·7	32·5	- 5·7	0	67	4	0·70	+0·02	14·3	+ 3·1	24	+ 4
	Hereford Ⓜ	42	23	39·7	28·9	34·5	- 4·5	0	53	4	0·26	- 0·34	*	*	*	*
	Cirencester	41	21	37·4	27·3	32·6	- 5·4	0	66	2	0·33	- 0·41	19·7	+ 7·7	33	+12
	Oxford	40	24	37·7	27·3	32·7	- 6·0	0	65	3	0·17	- 0·35	20·6	+ 9·4	34	+14
5. ENGLAND, S.	London	41	26	38·3	28·0	33·4	- 6·2	0	60	3	0·12	- 0·38	11·6†	+ 5·6†	19†	+ 8†
	North Foreland	37	25	35·4	27·1	31·4	- 7·9	0	74	3	0·09	?	*	*	*	*
	Dungeness	40	21	37·9	23·9	31·2	- 8·4	0	76	4	0·19	- 0·41	*	*	*	*
	Hastings (St. Leonards)	40	25	37·3	26·4	32·1	- 7·5	0	69	5	0·71	+0·05	31·4	+17·3	51	+27
	Southampton	44	24	40·9	29·6	35·5	- 4·7	0	46	3	0·20	- 0·57	20·2	+ 7·2	33	+11
	Hurst Castle	43	25	40·9	29·3	35·3	- 4·4	0	47	3	0·24	- 0·44	*	*	*	*
	Stowell Ⓜ	40	23	38·4	27·7	33·3	- 5·9	0	61	3	0·18	- 0·60	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	42	24	38·0	29·7	34·0	- 6·1	0	56	7	0·37	-1·59	*	*	*	*
	Glasgow	40	24	36·8	27·6	32·4	- 6·6	0	67	3	0·58	- 0·37	13·8	+ 7·6	25	+14
	Ardrossan	43	26	38·7	30·4	34·7	- 5·4	0	51	4	0·53	- 0·45	*	*	*	*
	Glenlee Ⓢ	40	15	36·5	25·2	31·0	- 6·2	0	77	5	0·79	- 0·79	*	*	*	*
	Douglas (Isle of Man)	41	25	38·8	30·5	34·8	- 5·9	0	50	6	1·33	+0·31	17·7	+ 5·7	30	+ 8
7. ENGLAND, N.W.	Stonyhurst	39	20	36·5	26·6	31·8	- 6·4	0	71	3	0·63	- 0·35	17·7	+ 8·7	30	+14
	Blackpool Ⓜ	42	18	39·9	27·9	34·1	- 4·8	0	55	5	0·79	+0·09	9·8	+ 0·8	17	+ 1
	Manchester (Prestwich)	38	20	36·2	25·6	31·1	- 7·3	0	76	6	0·77	+0·07	8·0	?	14	?
	Liverpool Obsy. (Bidston)	40	26	37·9	30·1	34·2	- 5·3	0	55	6	0·46	- 0·06	*	*	*	*
	Llandudno Ⓜ	42	27	39·6	31·2	35·6	- 5·9	0	45	7	0·93	+0·27	*	*	*	*
	Holyhead	42	31	40·7	33·7	37·3	- 5·1	0	33	6	0·62	- 0·13	*	*	*	*
8. ENGLAND, S.W.	Llandovery	41	17	39·1	22·7	31·2	- 6·5	0	76	7	0·62	- 0·56	*	*	*	*
	Pembroke	43	29	42·0	34·9	38·6	- 3·5	0	24	4	0·83	- 0·05	18·9	+ 5·9	32	+10
	Clifton	40	23	38·8	28·4	33·8	- 6·3	0	57	4	0·29	- 0·51	*	*	*	*
	Arlington (N. Devon)	42	24	39·6	29·6	34·8	- 5·4	0	50	6	0·97	+0·07	*	*	*	*
	Cullompton Ⓜ	44	19	41·8	27·9	35·1	- 5·1	0	48	6	0·41	- 0·19	21·6	+11·0	35	+17
	Falmouth	45	27	42·5	35·1	39·0	- 4·7	1	26	7	0·77	- 0·28	25·6	+11·9	41	+19
	Plymouth	45	25	42·0	32·6	37·5	- 4·6	0	32	6	0·61	- 0·29	19·6	+ 7·0	32	+12
	Prawle Point	45	24	42·6	29·3	36·2	- 5·7	2	47	5	0·56	- 0·08	*	*	*	*
9. IRELAND, N.	Malin Head	43	28	41·4	33·4	37·6	- 4·3	0	31	7	0·81	?	*	*	*	*
	Londonderry	45	26	41·3	30·2	36·0	- 4·3	0	42	7	0·95	+0·03	*	*	*	*
	Edenfel (Omagh)	43	19	38·9	27·4	33·4	- 5·0	0	60	7	0·90	+0·09	*	*	*	*
	Belmullet	45	29	42·9	33·4	38·3	- 4·9	3	32	6	0·94	- 0·31	*	*	*	*
	Markree Castle	45	17	41·3	27·4	34·6	- 5·6	0	52	7	1·51	+0·76	18·6	+ 8·3	32	+13
	Armagh	44	23	40·5	26·6	33·8	- 5·8	0	57	3	0·39	- 0·15	21·7	+10·9	37	+17
	Donaghadee	43	25	39·9	30·6	35·4	- 5·5	0	46	7	0·95	+0·23	*	*	*	*
	Edgeworthstown	43	21	39·2	25·8	32·8	- 5·7	0	64	4	0·82	+0·10	*	*	*	*
10. IRELAND, S.	Dublin	44	26	40·5	30·1	35·5	- 6·6	0	46	4	0·26	- 0·32	23·9	+ 9·9	41	+17
	Parsonstown	46	20	42·0	27·9	35·2	- 5·1	0	48	4	0·62	- 0·08	26·0	+13·7	44	+22
	Kilkenny	45	20	41·7	27·9	35·1	- 6·2	0	48	3	0·47	- 0·33	*	*	*	*
	Roche's Point	47	29	44·3	32·7	38·7	- 5·0	6	36	2	0·26	- 0·96	*	*	*	*
	Valencia	47	24	45·6	33·0	39·6	- 5·3	10	36	6	0·72	- 0·66	21·8	+ 8·6	36	+13
	Killarney	46	19	43·7	28·4	36·4	- 7·0	5	51	6	0·86	?	*	*	*	*
	Foynes	?	27	?	32·6	?	?	?	?	2	0·25	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	48	31	45·9	36·4	41·3	- 4·0	11	23	7	0·67	- 0·18	23·1	?	37	?
	Jersey	46	32	43·7	34·7	39·4	- 2·9	5	28	7	0·88	+0·14	11·8	- 0·6	19	- 2

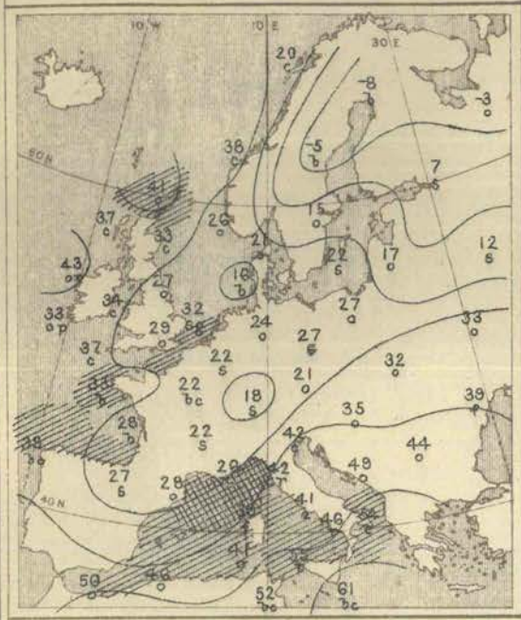
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

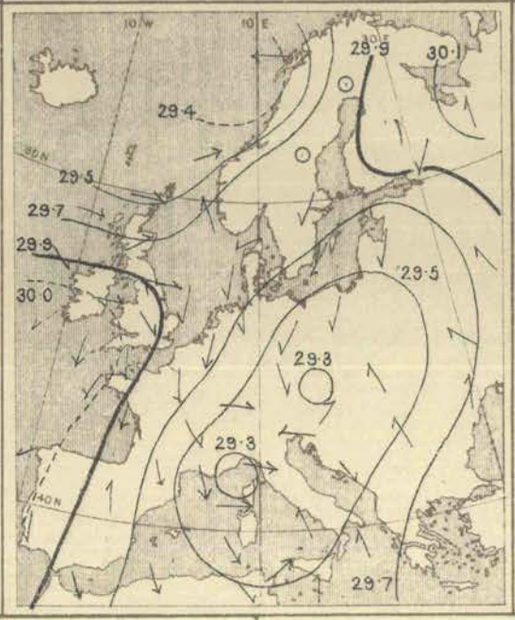
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 24th January.

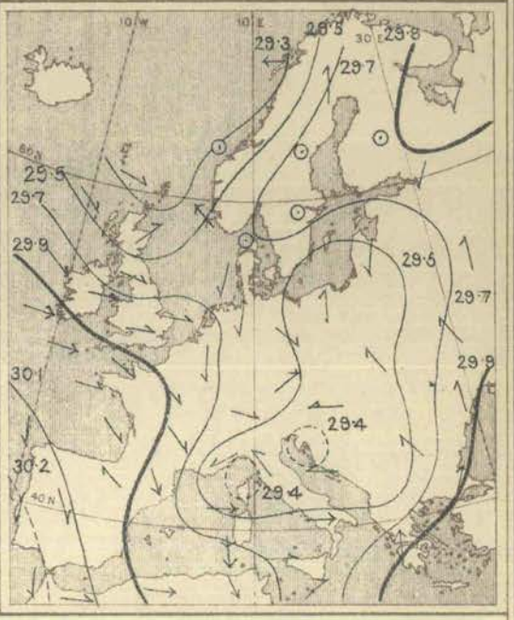
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and changeable, with rain in the north of Ireland and snow in the extreme south-east of England, as well as at many of the Continental stations. Rain falling in several parts of Italy. Rain or snow falling later in most parts of Europe—heavily in places.

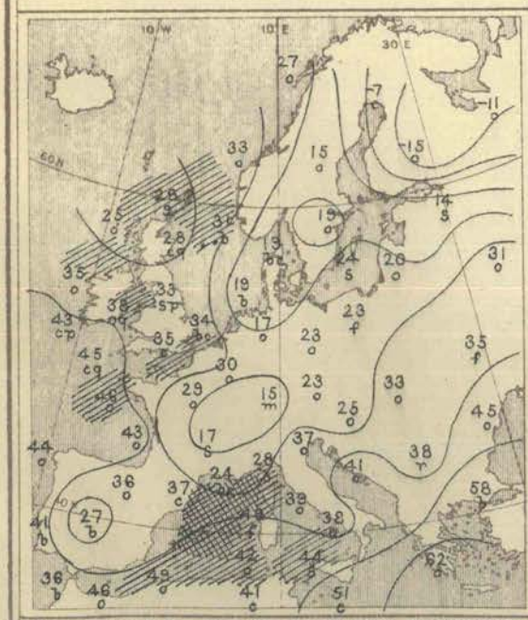
Temperature fallen in most places. Morning readings highest, 61° at Malta, 55° at Palermo, 54° at Brindisi, and 53° at Constantinople; above 45° at the Mediterranean and Adriatic stations generally. Lowest, −8° Fahr. at Uleaborg, −5° at Hernösand, −3° at Archangel, and −2° at Haparanda; considerably below the freezing point over northern and central Europe generally, and also over the central parts of England. Daily maxima below 40° at most of the English stations, and as low as 33° at the North Foreland. Readings still lower over central France, but thermometer exceeding 45° in most parts of southern Europe, and reaching 64° at Palermo and Malta.

Wind light from the Westward or South-Westward in the northern parts of our Islands but Northerly in the south. North-Easterly over Denmark, the Baltic, and Germany, and Northerly or North-Westerly over France and Spain; strong in force in many places. Calm over the northern parts of Sweden and Russia; South-Easterly over the central and southern parts of Russia; variable in Austria and Italy. Subsequently veering to the North-Westward on our own northern coasts and blowing strongly in places; backing to the Westward or South-Westward over the southern parts of our Islands.

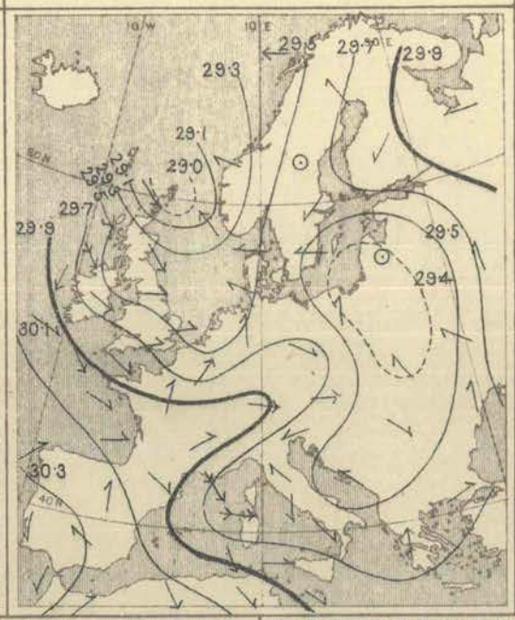
Barometer highest, 30·1 ins and upward in an anticyclone over northern Russia; 30·0 ins. and upwards in another system extending from the Atlantic over the south-west of our Islands and also over Portugal. Lowest, 29·3 ins. and less in two small depressions lying respectively near Munich and over the Gulf of Genoa; 29·4 ins. and less in a larger disturbance lying off the west of Norway. Norwegian depression subsequently spreading southwards, and barometer falling over western Europe generally.

Monday, 25th January.

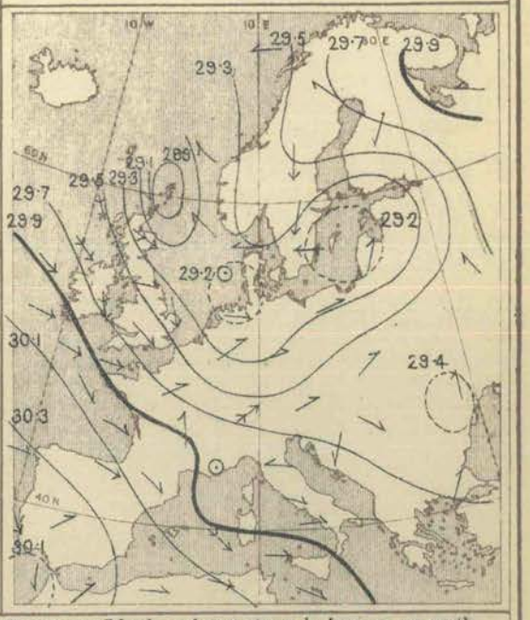
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine at most of the English and Irish stations, as well as over the Spanish Peninsula, the extreme south of France, and northern Italy. Cloudy or dull in nearly all other parts of Europe, with snow in the Shetlands, and also in many parts of Sweden, Russia, Denmark, and Germany. Snow, sleet, or hail falling later over nearly the whole of western, northern, and central Europe—heavily in the north of Scotland. Thunder and lightning occurring in the south-east of England.

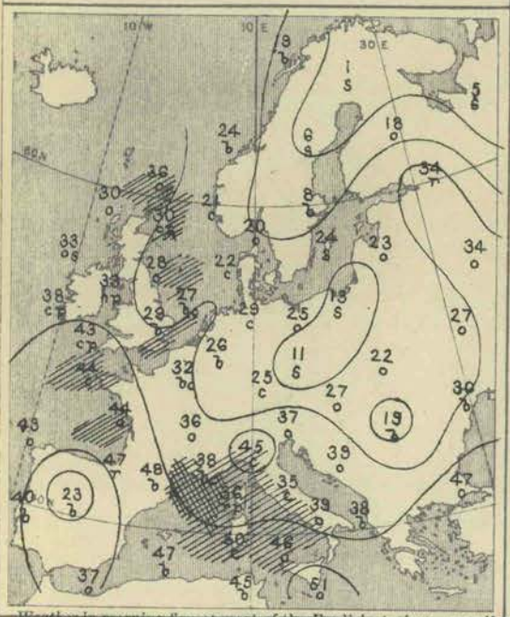
Temperature fallen in the north of our Islands, as well as over the central and southern parts of the Continent; risen briskly over England and also in central Russia. Morning readings highest, (1) 62° at Athens, 58° at Constantinople, and 51° at Malta; (2) 46° at Brest, and 45° at Scilly and Lorient. Lowest, −15° Fahr. at Knopio, −11° at Archangel, and −7° at Uleaborg, considerably below the freezing point over northern and central Europe generally, and also in Scotland. Rising during day to 40° and upwards over the southern parts of our Islands, but remaining below the freezing point at many of the northern stations. Reaching 50° or more over the Spanish Peninsula and southern Italy.

Wind Westerly or North-Westerly over our Islands, and very strong in force on our north western and extreme northern coasts, with a gale at Wick and Malin Head. South-Westerly over the Netherlands and central France, South-Easterly on the eastern shores of the North Sea, with a whole gale at Skudesnaes, Easterly or North-Easterly over Sweden and northern Russia. Westerly in Germany, Southerly over the central and southern parts of Russia, North-Westerly in Italy and the extreme south of France. Variable over the Spanish Peninsula. Subsequently increasing to a strong gale from the North-Westward or Northward on all our more northern coasts.

Barometer highest, 30·3 ins. and upwards in an anticyclone over the Spanish Peninsula; 29·9 ins. and upwards over northern Russia. Lowest, 29·0 ins, and less in a deep depression near the Shetlands; 29·4 ins. in two secondary systems lying respectively over the west of Scotland, and the southern parts of the North Sea, and also in another disturbance over the Baltic provinces. Depression near Shetlands subsequently moving slowly southwards secondary system over Scotland disappearing, that over North Sea travelling eastwards.

Tuesday, 26th January.

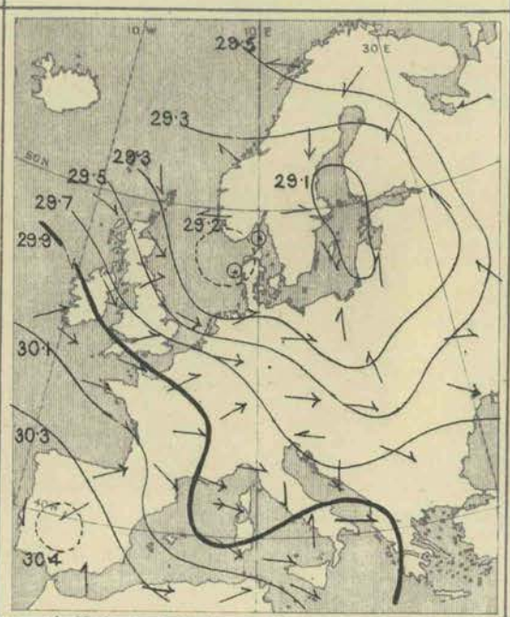
Temperature and Weather. 8 a.m.

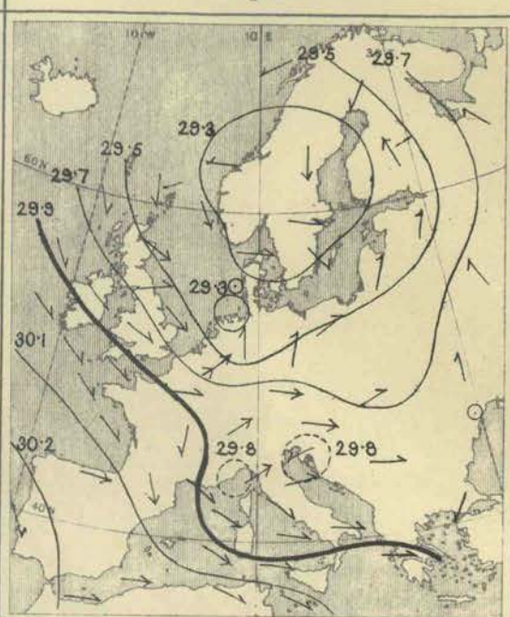


Weather in morning fine at most of the English stations, as well as over the Netherlands, Spain, northern Italy, and the extreme south of France, cloudy or dull in nearly all other parts of Europe, with snow in the north of Ireland and the north-east of Scotland, as well as at several of the Swedish, Russian, and German stations. Showers of hail or snow falling later in the west and extreme north of our Islands generally, and also in many parts of the Continent, but weather improving in Germany and Austria.

Temperature fallen in England and Ireland, and also in Norway, but risen in most other countries, rapidly over northern Russia. Morning readings highest, 52° at Palma, 51° at Malta, 50° at Cagliari, 47° at Biarritz, Algiers, and Constantinople. Lowest, 1° at Haparanda, 5° at Archangel, 6° at Hernösand, and 8° at Stockholm; considerably below the freezing point in most parts of northern and central Europe, and slightly below it in our Islands. Daily maxima below 35° in several parts of Great Britain; thermometer exceeding 50° over southern Europe generally, and reaching 59° at Perpignan and Cagliari. Sharp frost occurring over our Islands at night.

Barometer and Wind. 8 a.m. and 6 p.m.



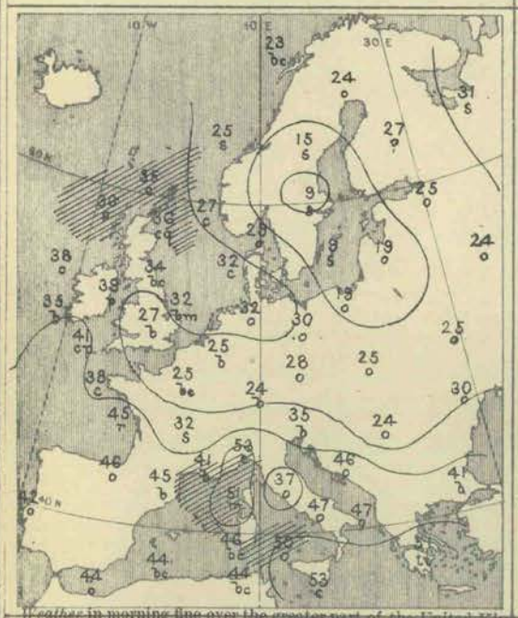


Wind Westerly or North-Westerly over the greater part of western and central Europe, and strong in force on our own north-west, north, and east coasts. South-Westerly or Southerly over eastern Germany and the Baltic Provinces; Easterly or North-Easterly over the extreme northern parts of Russia and Scandinavia; Northerly in Sweden, calm in Denmark. Rather variable over Spain and Italy, but chiefly Westerly in the latter country. No important change occurring in our Islands during day, but stiff Westerly gale blowing in Holland and western Germany.

Barometer highest, 30·4 ins. and upwards in an anticyclone over Spain. Lowest, 29·1 ins. and less in a depression over the southern part of the Gulf of Bothnia; 29·2 ins. and less in another disturbance over the North Sea. Depressions beginning to fill up later, and barometer rising in most parts of western and northern Europe; new disturbances forming, however, over the Gulf of Genoa and the northern part of the Adriatic.

Wednesday, 27th January.

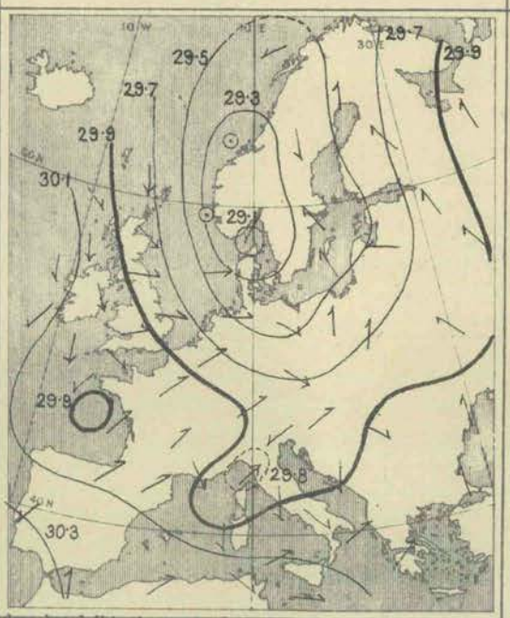
Temperature and Weather. 8 a.m.

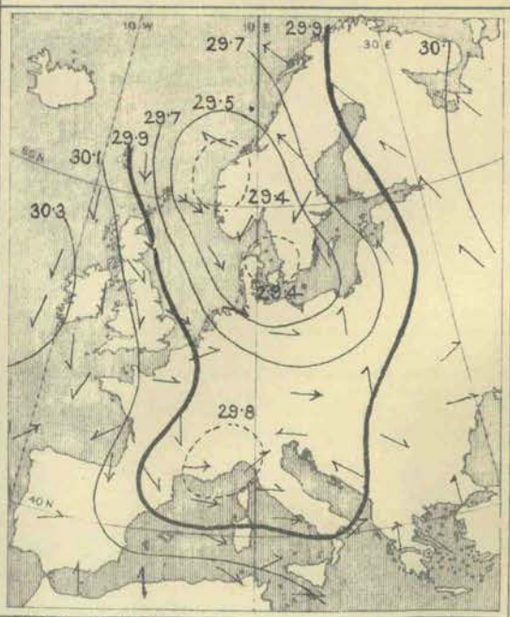


Weather in morning fine over the greater part of the United Kingdom, but dull in the north of Scotland, and showery at one or two of our western stations. Cloudy and unsettled in most of the Continental countries, with snow at several of the French and Scandinavian stations, as well as at Memel and Archangel; thunderstorm reported at Patras. Fine and bright in the extreme south of France. Snow showers falling later at several of our own northern stations, as well as in the western parts of the Continent, and rain in many parts of southern Europe.

Temperature risen in the north of our Islands, as well as in Scandinavia, Denmark, and northern Russia, fallen in most other localities. Morning readings highest, 53° at Malta, 52° at Leghorn, and 51° at Sanguinaire and Patras; above 45° at several of the Mediterranean and Adriatic stations. Lowest, 6° at Karlstad, 9° at Stockholm, 14° at Warsaw, 15° at Hernösand. Below the freezing point over northern and central Europe generally, and also over the southern parts of the United Kingdom. Daily maxima below 40° in many parts of Great Britain: thermometer exceeding 50° over southern Europe generally.

Barometer and Wind. 8 a.m. and 6 p.m.



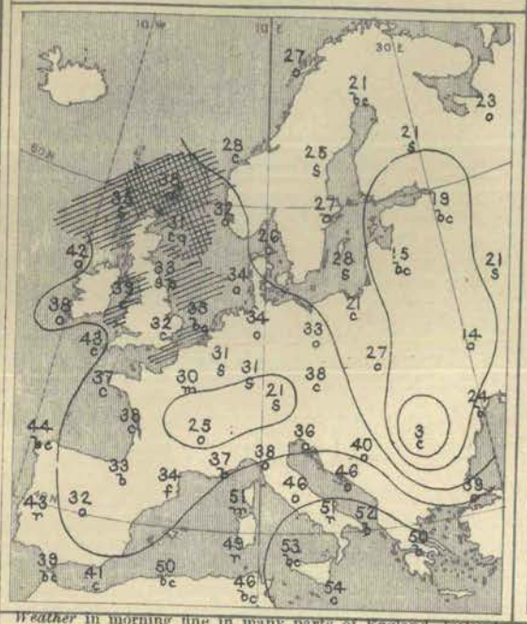


Wind fresh to strong from the Northward or North-Westward on our own western and northern coasts; light from the Westward over England, and strong from the same quarter over Denmark, Germany, and the Netherlands, Southerly or South-Easterly over Russia and the Baltic; variable in Sweden, calm in the west of Norway. South-Westerly over the greater part of France; North-Westerly or Westerly in Italy, variable in Greece and also over the Spanish Peninsula. Subsequently veering to the North-Westward over England, France, and the Netherlands. Strong gale from same quarter springing up at Skudesnaes.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over Morocco and the extreme south of Spain. Lowest, 29·1 ins. and less in a depression over the north of Denmark; 29·8 ins. and less in another system over the Gulf of Genoa; 29·9 ins. and less in a third disturbance over the Bay of Biscay. Depressions over Denmark and Bay of Biscay beginning to disperse later; barometer rising generally, and large anticyclone spreading in from the Atlantic.

Thursday, 28th January.

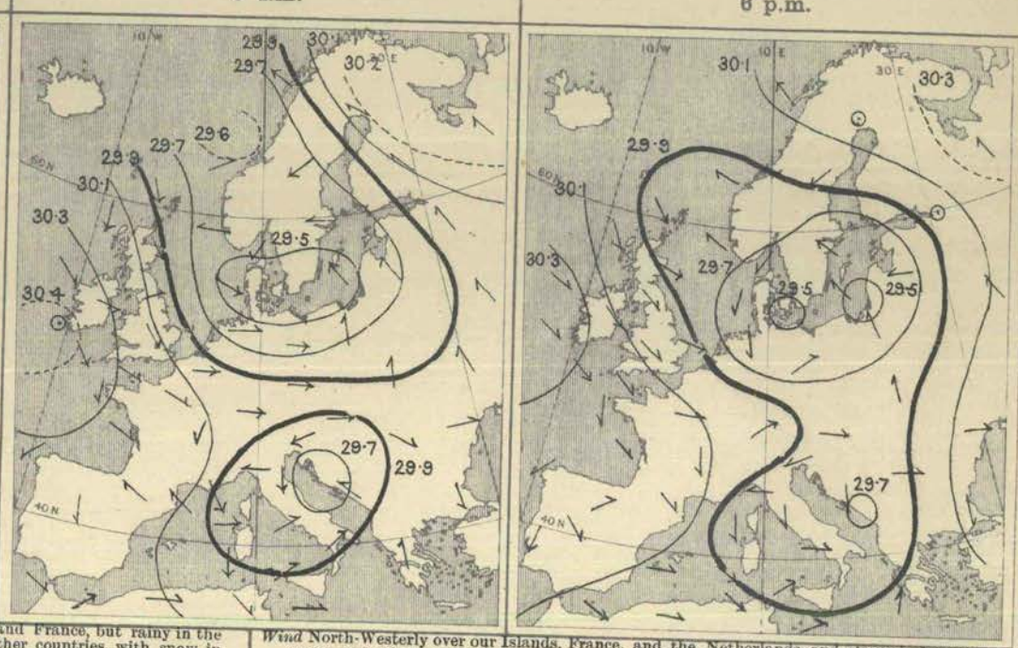
Temperature and Weather. 8 a.m.



Weather in morning fine in many parts of England, Ireland, and France, but rainy in the extreme north of Ireland. Dull and unsettled in nearly all other countries, with snow in the Hebrides, as well as in Belgium, western Germany, and many parts of Sweden and Russia. Rain falling at some of the Mediterranean and Adriatic stations, and also at Lisbon, but weather fine in the extreme south of France. Snow or sleet showers falling later at many of our own western, southern, and extreme northern stations, as well as in Sweden, Germany, and France, and rain in some parts of southern Europe.

Temperature fallen in the north of our Islands, and also in Russia and the south of France; risen in most other localities. Morning readings highest, 54° at Malta, 53° at Palermo, 52° at Brindisi, and 51° at Naples and Sanguinaire. Lowest, (1) 14° at Kiev, and 15° at Riga and Nicolaieff; (2) 21° at Munich and 23° at Belfort; lowest in our Islands, 26° at Dungeness. Daily maxima below 40° in many parts of Great Britain, and below 35° at some of the northern and eastern stations; thermometer rising to 45° or more in the west and south of France, to 50° or more over the Spanish Peninsula and the southern parts of Italy.

Barometer and Wind. 8 a.m. and 6 p.m.

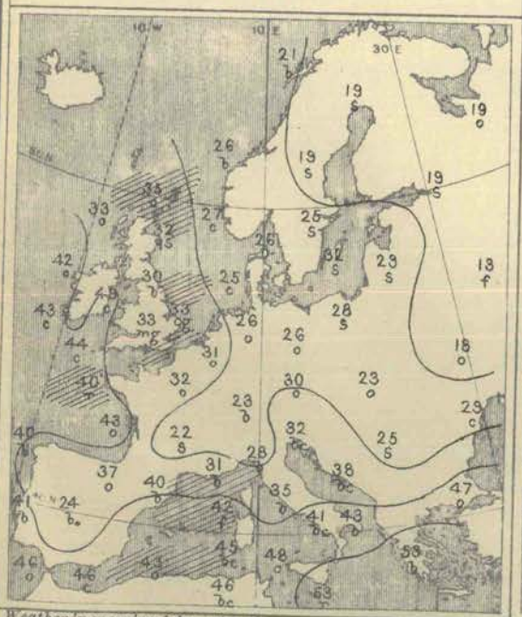


Wind North-Westerly over our Islands, France, and the Netherlands, and strong in force on many parts of our north and north-west coasts. Moderate to strong from the Westward in Germany and Austria; light from the South-Eastward in Russia; Easterly or North-Easterly at most of the Scandinavian stations. Light from the Eastward or North-Eastward in Spain, and fresh to strong from the same quarter over the northern parts of Italy and the Adriatic, but moderate from the Westward or South-Westward over southern Italy. No important change occurring during day.

Barometer highest, 30·40 ins. at Valencia and Roche's Point; 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the western parts of our Islands and France generally, and also in another system over the extreme north of Russia. Lowest, 29·5 ins. and less in a rather complex depression over Denmark, the Baltic, and the south of Sweden, 29·7 ins. and less in another disturbance over the Adriatic. Baltic depression partially filling up later, but barometer falling a little in most parts of our Islands and France.

Friday, 29th January.

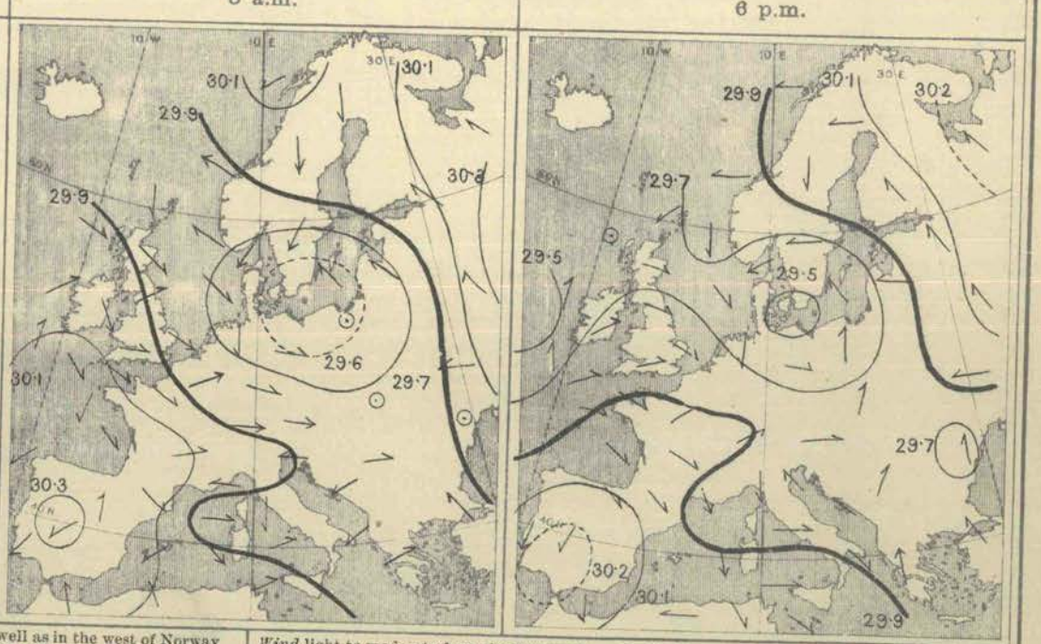
Temperature and Weather. 8 a.m.



Weather in morning fair or fine in most parts of Great Britain, as well as in the west of Norway and over southern Europe generally. Cloudy or dull elsewhere, with snow in many parts of northern and central Europe. Rainy weather spreading later from the westward over nearly the whole of Ireland, England, and France; snow falling over the northern parts of Great Britain, as well as over Sweden, Germany, and the Baltic. Parhelion seen at Oxford.

Temperature risen in France and the west and south of our Islands, as well as over the Baltic Provinces, but fallen in most other localities. Morning readings highest, 53° at Athens and Malta, 52° at Patras, and 49° at Algiers; above 40° on our own extreme west and south-west coasts. Lowest, 13° at Moscow, 14° at Ulealborg, 15° at Warsaw, and 18° at Kiev; considerably below the freezing point over northern, eastern, and central Europe generally, and slightly below it in many parts of Great Britain. Daily maxima below 40° in the north and east of our Islands, but thermometer exceeding 45° on our south-west coasts and in the west and south of France, and exceeding 50° in Spain and southern Italy.

Barometer and Wind. 8 a.m. and 6 p.m.

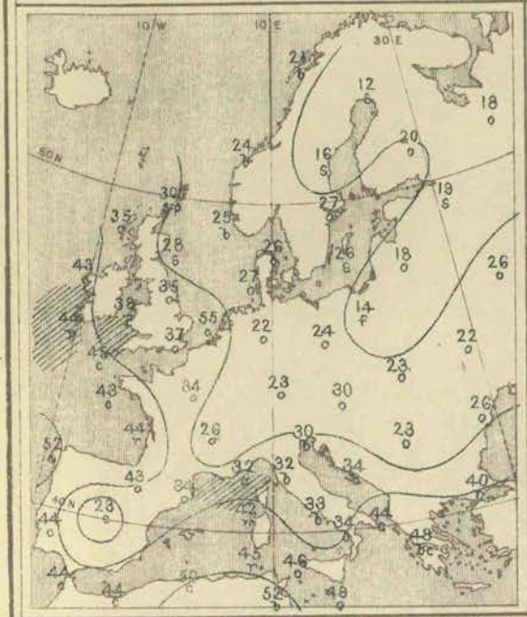


Wind light to moderate from the Westward or North-Westward over Great Britain, France, Germany, and Austria, but South-Westerly or Southerly in the west of Ireland. Moderate to strong from the Eastward or North-Eastward over Scandinavia and northern Russia, light from the Northward in Denmark. Light and variable in Italy, North-Easterly over the Spanish Peninsula. Subsequently backing to the Southward on all our own western coasts, and freshening considerably in the south-west; no important change occurring elsewhere.

Barometer highest, 30·3 ins. to 30·1 ins. in an anticyclone extending from the Atlantic over the Spanish Peninsula, the west and south of France, and the extreme south-west of our Islands, and also in another system over Russia. Lowest, 29·6 ins. and less in a depression over the Baltic and the neighbouring provinces; 29·8 ins. and less in a shallow system over the central parts of the Adriatic. New depression approaching our Islands later from the Atlantic, and barometer falling briskly on our western coasts.

Saturday, 30th January.

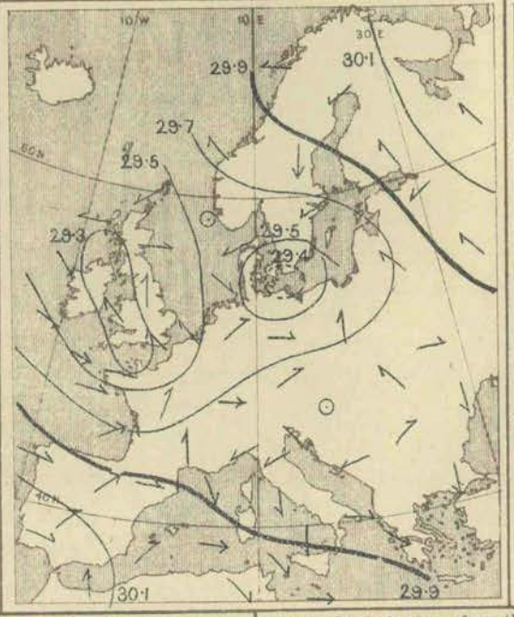
Temperature and Weather. 8 a.m.



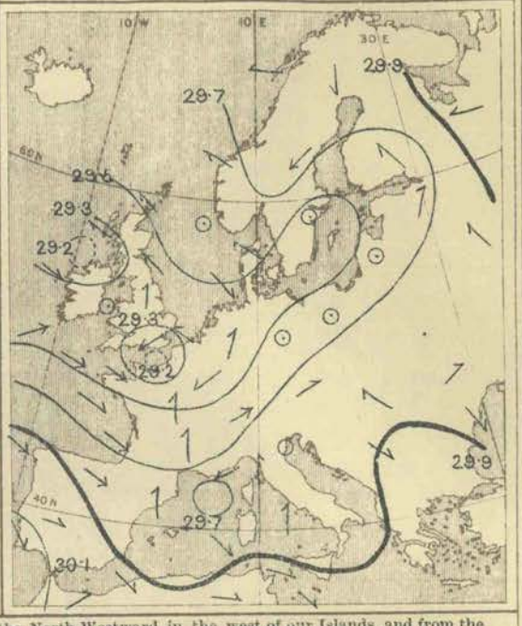
Weather in morning cloudy and unsettled in most parts of our Islands and the Continent, with rain at several of the English and Irish stations, and snow in the east of Scotland, as well as in Belgium, the east of France, and many parts of northern Europe. Fine and bright in the west of Norway, and also in Italy. Rain or snow falling later over nearly the whole of Europe—heavily in the east of Scotland, and also in the west and north of France.

Temperature risen in our Islands and France, as well as in Russia, fallen in most other countries. Morning readings highest, (1) 52° at Tunis, 50° at Algiers, and 49° at Palma and Malta; (2) 52° at Coruuna, and 46° at Scilly. Lowest, 12° at Haparanda, 14° at Neufahrwasser, 15° at Uleaborg, and 16° at Hernösand; below the freezing point over northern and central Europe generally, as well as in many parts of Scotland. Daily maxima below 40° over all the more northern, eastern, and central parts of Great Britain, but thermometer exceeding 45° in the west and south of France, and exceeding 50° over the southern parts of Italy and the Spanish Peninsula.

Barometer and Wind. 8 a.m.



6 p.m.



Wind moderate to strong from the North-Westward in the west of our Islands, and from the Westward in the west of France; light from the Southward in central France, from the South-Eastward over the eastern and central parts of England, and from the Eastward at many of the Scotch stations. Moderate from between East and North over Sweden and northern Russia; Westerly or South-Westerly in Germany. Northerly over Italy and the south of Russia; Westerly at most of the Spanish and Mediterranean stations. Subsequently increasing to a strong gale from East or South-East in the north-east of Scotland; backing to the Westward in Ireland.

Barometer highest, 30·2 ins. and upwards over northern Russia; 30·1 ins. and upwards over all the more central and southern parts of the Spanish Peninsula. Lowest, 29·3 ins. and less in an elongated depression lying over the western parts of Great Britain; 29·4 ins. and less in another disturbance lying off the extreme south of Sweden. Depression on our western coasts subsequently splitting into two portions—one passing south-eastwards to France, the other moving northwards and eastwards over Scotland. Swedish depression filling up.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During nearly the whole of this week barometrical pressure was highest to the south-westward or westward of our Islands, but somewhat high also over northern Russia, the weather over Europe as a whole being affected by numerous depressions which appeared in the intervening regions. Of these the most important were (1) a deep disturbance which spread down the North Sea from the northward on the 25th, and which occasioned severe North-Westerly gales and snowstorms in Scotland; and (2) a secondary system which formed to the southward of the main depression, and which afterwards moved across Denmark to the Baltic, where it gradually filled up. The latter disturbance occasioned frequent falls of snow, not only in our Islands, but over all the more northern and central parts of the Continent, with a continuance of gales, or very strong winds, from the North-Westward in the north of Scotland.

Towards the close of the week the anticyclone to the westward of our Islands gave way, and a complex depression advanced over us from the Atlantic. The latter system ultimately split into two portions—one moving southward to France, and occasioning North-Westerly gales over our south-west coasts and the Bay of Biscay; the other passing eastwards over Scotland, and producing strong South-Easterly to Easterly gales, and further heavy snowstorms in the north of that country.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 20.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean fo the Week.
EDINBURGH	9·1	+ 0·4	16	0	SOUTHPORT	13·5	?	23	?
OSWALDKIRK (Yorkshire)					MANCHESTER (Oldham Road)	4·0*	?	7*	?
WORKSOP	16·6	+ 7·1	28	+ 12	COLWYN BAY	14·1	?	24	?
THURCASTON (Leicestershire)	21·4	+11·6	36	+ 19	NEWQUAY	18·8	+ 5·6	30	+ 9
MARGATE	22·1	+10·9	36	+ 18	TORQUAY	21·8*	+ 7·8	35*	+12
WESTBOURNE (Sussex)	24·9*	+11·9	41*	+ 18	ARLEY COTTAGE (County Cavan)	19·4	+ 7·7	33	+13
BRIGHTON	28·4	+16·4	47	+ 26	GUERNSEY	13·1*	+ 0·7	21*	0
EASTBOURNE	27·7	+14·7	45	+ 24					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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VOL. XIV. No. 5.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 6TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 26.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	For the Week. Difference from Mean.	For the Week. Below 42°	For the Week. Difference from Mean.	From January 3rd, 1897. Above 42°	From January 3rd, 1897. Difference from Mean.	From January 3rd, 1897. Below 42°	From January 3rd, 1897. Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	45	0	36·1	24·1	30·1	8 below	0	− 7	83	+41	3	−28	297	+84
	1. SCOTLAND, EAST	41	−7	36·0	23·7	29·9	7 below	0	− 8	85	+40	0	−36	320	+97
	2. ENGLAND, N.E.	40	26	37·3	31·8	34·6	4 below	0	− 7	52	+12	0	−31	249	+45
	3. ENGLAND, EAST	46	27	37·9	32·7	35·3	3 below	0	− 8	47	+ 1	0	−34	266	+30
	4. MIDLAND COUNTIES	48	25	37·7	32·5	35·1	3 below	0	−10	48	+ 2	0	−43	278	+44
	5. ENGLAND, SOUTH	49	32	43·6	36·6	40·1	0 (average)	4	− 6	20	−17	12	−37	196	+ 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	42	22	37·9	32·1	35·0	5 below	0	−10	49	+17	3	−44	234	+73
	7. ENGLAND, N.W.	46	28	38·9	33·7	36·3	4 below	0	− 8	40	+ 6	1	−37	213	+42
	8. ENGLAND, S.W.	53	29	46·0	39·1	42·5	1 above	16	+ 1	8	−19	33	−36	147	+ 9
	9. IRELAND, NORTH	48	28	41·7	35·2	38·5	2 below	0	−13	25	− 2	7	−54	196	+55
	10. IRELAND, SOUTH	53	28	47·2	37·2	42·2	1 below	22	+ 2	13	− 8	47	−45	152	+40
	—CHANNEL ISLANDS	53	37	51·0	43·7	47·4	3 above	38	+18	0	−13	90	−14	59	− 4

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 26.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	2	10 less	20	− 7	2·2	− 4·1	14	+ 6	24	+10	45	+ 17	18	+ 7
	1. SCOTLAND, EAST	3	2	5 less	18	− 2	1·8	− 1·4	8	− 3	13	− 7	34	− 10	13	− 4
	2. ENGLAND, N.E.	6	11	6 more	28	+ 9	3·1	− 0·8	1	−10	1	−18	35	− 11	13	− 4
	3 ENGLAND, EAST	7	17	12 more	28	+ 8	3·7	+ 1·4	1	−12	1	−21	33	− 24	12	− 8
	4. MIDLAND COUNTIES	6	19	14 more	23	+ 4	3·8	+ 1·0	1	−11	2	−19	36	− 17	12	− 6
	5. ENGLAND, SOUTH	7	22	16 more	22	+ 3	4·2	+ 1·0	1	−12	1	−20	42	− 15	14	− 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	5	7 less	15	− 8	2·4	− 3·9	3	− 7	5	−12	56	+ 13	21	+ 5
	7. ENGLAND, N.W.	6	12	5 more	22	+ 1	2·6	− 0·9	1	−10	2	−18	33	− 7	14	− 3
	8. ENGLAND, S.W.	7	25	16 more	23	+ 1	4·7	+ 0·3	9	− 6	14	− 9	63	0	22	0
	9. IRELAND, NORTH	6	7	1 less	22	− 2	2·5	− 1·6	1	−11	2	−19	60	+ 8	22	+ 3
	10. IRELAND, SOUTH	6	13	4 more	20	− 2	3·7	− 0·6	8	− 6	13	−10	81	+ 17	29	+ 6
	—CHANNEL ISLANDS	7	22	14 more	29	+ 5	5·0	+ 1·1	10	− 8	15	−14	54	− 30	14	− 10

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, and the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this week was extremely dull over England and Ireland, with heavy falls of rain or wet snow almost daily. In Scotland the conditions, although unusually cold, were fairer and drier.

Temperature was again much below the mean over the greater part of the Kingdom, the deficit in Scotland N. and E. being 7° or 8°. In England S., however, the mean was just equalled, while in England S.W. and the Channel Islands it was exceeded. The highest of the maxima, which were recorded during the latter part of the period, ranged from 53° in the Channel Islands, England S.W., and Ireland S., to 40° in England N.E. The lowest of the minima were registered on January 31st in Ireland, on February 2nd and 3rd over England, and on the 4th in Scotland; in the last-named country the readings were exceedingly low, the thermometer falling to −7° in Scotland E. (at Braemar), and to 0° in Scotland N. (at Lairg); at Nairn also the thermometer fell to zero. In the other parts of the Kingdom temperature was much higher, the minima ranging from 22° in Scotland W. to 32° in England S., and to 37° in the Channel Islands. During Thursday evening a very rapid rise of temperature took place in the north and east of Scotland, the change amounting to more than 30° in less than 24 hours.

Rainfall was much in excess of the mean over England, as well as in Ireland S. and the Channel Islands, the fall in most cases being between three and four times as great as the mean value. Over Scotland the fall was very much less than the normal, and even in Ireland N. there was a slight deficiency.

Bright Sunshine exceeded the mean in Scotland N., but was extremely deficient elsewhere. The percentage of the possible amount of duration ranged from 24 in Scotland N., and 15 in the Channel Islands, to 2 in Ireland N., and to 1 in most parts of England. At most of the stations in England S. sunshine was entirely absent.

Barometer and Wind.—During the whole of this period depressions (mostly shallow) either spread over our more western and southern districts from the Atlantic or formed directly over us. In Scotland, however, the condition was generally anticyclonic until nearly the end of the week. The winds varied a good deal both in direction and force, but were generally moderate from the South-Westward or Westward in the south, and from the South-Eastward or Eastward in the east and north. On Friday, however, the South-Easterly wind increased to the force of a gale in the north-east of Scotland.

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II.—DATA from which the SUMMARY on page 25 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		*	*	*	*	*	*	*	*		Inches.	Inches				
0. SCOTLAND, N.	Sumburgh Head	38	25	35·4	27·4	31·4	- 7·3	0	74	5	0·61	-0·22	*	*	*	*
	Stornoway	43	22	39·6	27·7	33·7	- 5·4	0	58	3	0·29	-0·76	20·5	+10·5	35	+18
	Wick	39	9	35·4	18·7	27·1	-10·9	0	104	2	0·15	-0·35	*	*	*	*
	Lairg Ⓢ	45	0	33·4	15·2	24·3	-12·3	0	124	1	0·08	-0·72	*	*	*	*
	Glencarron Ⓢ	38	18	34·6	23·6	29·1	- 7·9	0	90	1	0·20	-1·88	*	*	*	*
	Fort Augustus Ⓢ	41	20	36·9	26·1	31·5	- 6·7	0	74	2	0·08	-0·88	12·6	+ 7·4	21	+11
	Fort William Ⓢ	40	26	37·2	30·0	33·6	- 5·0	0	59	1	0·04	-2·02	9·6	+ 0·9	16	0
1. SCOTLAND, E.	Nairn	41	0	35·0	12·9	24·0	-13·4	0	126	2	0·33	-0·05	*	*	*	*
	Aberdeen	38	9	34·9	22·6	28·8	- 9·0	0	92	4	0·22	-0·38	14·3	+ 0·1	24	0
	Braemar Ⓢ	37	-7	32·3	17·4	24·9	- 9·6	0	120	2	0·05	-0·68	9·0†	- 0·5†	15†	- 1†
	Ochtertyre Ⓢ	40	21	37·1	27·0	32·1	- 4·7	0	69	4	0·25	-0·79	*	*	*	*
	Leith Ⓢ	41	31	38·9	32·4	35·7	- 3·3	0	44	2	0·03	-0·44	*	*	*	*
	Marchmont Ⓢ	39	27	37·6	30·0	33·8	- 3·0	0	57	4	0·28	-0·39	3·3	- 8·4	5	-16
2. ENGLAND, N.E.	Alnwick Castle	38	30	36·7	31·7	34·2	+ 4·0	0	55	7	1·00	+0·45	*	*	*	*
	Durham	38	29	37·0	31·0	34·0	+ 3·8	0	56	5	0·58	+0·13	1·0	-11·5	2	-20
	Shields	40	31	39·1	32·9	36·0	- 3·1	0	42	5	0·74	+0·29	*	*	*	*
	Scarborough Ⓜ	39	28	37·5	31·7	34·6	+ 4·4	0	52	5	1·24	+0·76	*	*	*	*
	York	38	26	36·6	30·4	33·5	+ 5·3	0	60	7	1·33	+0·85	0·1	- 9·9	0	-16
	Spurn Head	38	31	37·0	33·1	35·1	- 3·9	0	48	6	1·61	+1·24	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	38	31	36·6	32·9	34·8	- 3·4	0	50	7	1·58	+1·10	0·0	-13·4	0	-22
	Yarmouth	38	31	36·6	32·3	34·5	- 3·5	0	53	7	1·70	+1·21	*	*	*	*
	Geldeston	41	27	38·2	32·7	35·5	- 3·3	0	46	7	1·47	+1·05	2·2	-11·9	3	-20
	Cambridge	45	30	39·0	32·3	35·7	- 2·8	0	44	6	1·56	+1·16	0·0	-13·7	0	-22
	Rothamsted	46	31	39·2	33·2	36·2	- 1·6	0	41	6	2·00	+1·43	0·2	-12·3	0	-20
4. MIDLAND COUNTIES	Harrogate Ⓜ	37	25	34·6	29·6	32·1	- 5·4	0	69	5	1·89	?	1·5	?	2	?
	Bawtry (Hesley Hall)	40	28	36·3	31·4	33·9	- 4·4	0	57	7	2·05	+1·60	*	*	*	*
	Loughborough	40	32	37·4	32·7	35·1	- 3·6	0	48	7	1·99	+1·56	*	*	*	*
	Stamford (Duddington)	40	30	36·9	32·0	34·5	- 3·5	0	53	7	2·38	+1·89	*	*	*	*
	Cheadle Ⓜ	33	31	34·6	31·6	33·1	- 4·2	0	62	6	1·94	+1·26	*	*	*	*
	Shirley (near Solihull)	41	31	37·1	32·5	34·8	- 3·0	0	50	6	2·27	?	*	*	*	*
	Churchstoke Ⓜ	42	29	38·7	32·4	35·6	- 2·8	0	45	5	1·13	+0·45	2·8	- 9·9	5	-16
	Hereford Ⓜ	45	32	40·3	33·9	37·1	- 2·1	0	34	6	1·50	+0·90	*	*	*	*
	Cirencester	47	32	40·4	33·7	37·1	- 0·9	0	34	6	2·54	+1·84	0·1	-13·2	0	-22
	Oxford	48	33	40·6	35·0	37·8	- 1·2	0	29	6	1·65	+1·13	0·0	-12·5	0	-21
5. ENGLAND, S.	London	49	33	41·6	35·3	38·5	- 1·3	0	25	6	1·84	+1·36	0·0†	- 6·8†	0†	-12†
	North Foreland	48	32	41·7	34·6	38·2	- 1·3	0	27	6	1·46	?	*	*	*	*
	Dungeness	45	34	43·3	35·7	39·5	- 0·3	4	23	7	1·18	+0·60	*	*	*	*
	Hastings (St. Leonards)	47	34	43·7	37·2	40·5	+ 0·7	5	18	7	2·01	+1·39	1·3	-14·3	2	-23
	Southampton	49	33	45·2	37·5	41·4	+ 0·9	9	18	7	2·78	+2·06	0·0	-14·7	0	-23
	Hurst Castle	47	34	45·3	38·4	41·9	+ 1·0	9	15	7	2·57	+1·92	*	*	*	*
	Stowell Ⓜ	47	32	44·7	37·3	41·0	+ 1·6	8	18	7	3·56	+2·78	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	41	28	37·8	31·9	34·9	- 5·1	0	50	2	0·24	-1·66	*	*	*	*
	Glasgow	39	30	36·7	31·6	34·2	- 4·7	0	55	2	0·27	-0·66	3·9	- 3·5	7	- 5
	Ardrossan	41	30	37·4	31·7	34·6	- 5·6	0	52	2	0·37	-0·59	*	*	*	*
	Glenlee Ⓢ	39	22	38·0	30·4	34·2	- 3·3	0	55	4	0·51	-0·99	*	*	*	*
	Douglas (Isle of Man)	42	31	39·5	34·7	37·1	- 3·7	0	34	5	1·30	+0·32	1·2	-12·1	2	-20
7. ENGLAND, N.W.	Stonyhurst	38	28	36·2	32·0	34·1	- 4·4	0	55	6	1·05	+0·09	0·6	- 9·7	1	-16
	Blackpool Ⓜ	42	28	38·4	32·3	35·4	- 3·8	0	46	6	1·02	+0·34	0·8	- 9·7	1	-17
	Manchester (Prestwich)	37	32	36·0	32·7	34·4	- 4·2	0	53	6	1·42	+0·74	0·1	?	0	?
	Liverpool Obsy. (Bidston)	41	31	38·7	32·9	35·8	- 4·0	0	43	7	1·60	+1·10	*	*	*	*
	Llandudno Ⓜ	45	33	41·2	35·8	38·5	- 3·2	0	25	7	1·18	+0·56	*	*	*	*
	Holyhead	46	35	42·9	36·6	39·8	- 2·5	3	20	6	0·97	+0·27	*	*	*	*
8. ENGLAND, S.W.	Llandovery	48	29	43·1	34·9	39·0	+ 1·0	3	26	7	1·35	+0·72	*	*	*	*
	Pembroke	48	36	45·6	40·9	43·3	+ 1·3	14	3	7	1·52	+0·70	5·0	- 9·5	8	-16
	Clifton	48	33	42·9	36·5	39·7	- 0·5	3	20	7	2·38	+1·00	*	*	*	*
	Arlington (N. Devon)	48	29	44·7	37·7	41·2	+ 0·7	8	17	7	3·42	+2·52	*	*	*	*
	Cullompton Ⓜ	53	30	47·2	38·3	42·8	+ 2·4	21	10	7	2·55	+1·94	4·8	- 7·5	8	-11
	Falmouth	52	34	48·8	42·7	45·8	+ 2·0	27	0	7	3·14	+2·14	14·5	- 0·8	22	- 1
	Plymouth	52	34	48·0	40·9	44·5	+ 2·0	22	3	7	2·17	+1·32	8·7	- 5·5	13	-10
	Prawle Point	50	34	47·3	40·6	44·0	+ 1·6	20	4	7	2·70	+2·10	*	*	*	*
9. IRELAND, N.	Malin Head	44	35	40·3	36·0	38·2	- 3·6	0	27	6	0·43	?	*	*	*	*
	Londonderry	48	31	41·1	34·7	37·9	- 3·0	0	29	6	0·79	-0·08	*	*	*	*
	Edenfel (Omagh)	44	29	39·4	33·7	36·6	- 2·1	0	38	6	1·02	+0·25	*	*	*	*
	Belmullet	48	32	45·6	37·3	41·5	- 1·7	10	19	6	0·68	-0·52	*	*	*	*
	Markree Castle	46	28	42·6	36·9	39·8	- 0·4	2	19	7	0·75	+0·05	1·1	-10·7	2	-19
	Armagh	44	28	41·0	34·1	37·6	- 2·2	0	31	5	0·39	-0·13	1·4	-10·6	2	-18
	Donaghadee	43	29	41·3	34·4	37·9	- 3·1	0	29	5	0·84	+0·14	*	*	*	*
	Edgeworthstown	47	29	42·3	34·8	38·6	- 0·1	1	26	7	0·93	+0·19	*	*	*	*
10. IRELAND, S.	Dublin	50	32	43·9	37·2	40·6	- 1·6	5	18	7	0·86	+0·29	2·3	-12·8	4	-20
	Parsonstown	50	28	45·7	35·1	40·4	- 0·4	10	27	7	0·92	+0·26	4·5	- 9·1	7	-15
	Kilkenny	53	29	45·6	34·0	39·8	- 1·7	10	31	7	0·95	+0·18	*	*	*	*
	Roche's Point	52	35	48·4	39·6	44·0	+ 0·2	24	7	6	1·76	+0·58	*	*	*	*
	Valencia	53	33	50·7	40·1	45·4	+ 0·4	32	5	6	1·52	+0·20	17·7	+ 3·5	28	+ 5
	Killarney	53	32	48·9	37·3	43·1	- 0·1	27	13	6	0·90	?	*	*	*	*
	Foynes	?	35	?	38·7					4	0·93	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	40	51·3	44·0	47·7	+ 2·3	40	0	7	2·58	+1·78	12·7	?	20	?
	Jersey	52	37	50·6	43·3	47·0	+ 4·3	35	0	7	1·78	+1·08	7·1	-11·7	11	-18

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

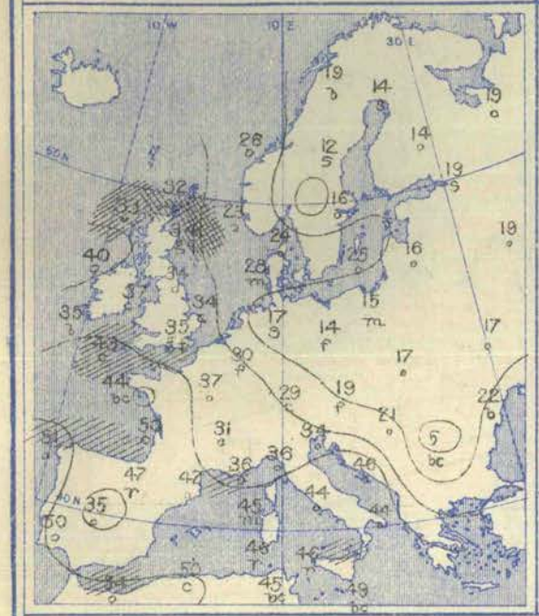
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 31st January.

Temperature and Weather.

8 a.m.

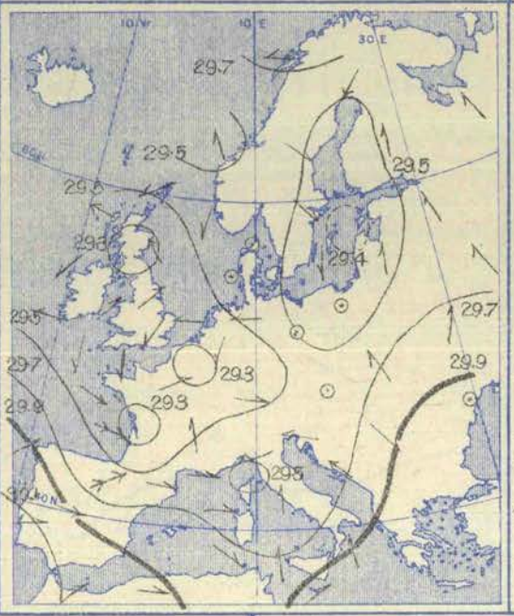


Weather in morning dull, but quiet, over Russia, changeable and unsettled over the other parts of Europe, and especially over the northern parts of the British Islands and the southern parts of France, where rain or wet snow prevailed in many localities. Considerable falls of rain later over the Azores, Ireland, England, France, and the south of Italy, smaller quantities (with snow) over Scotland and the shores of the Baltic.

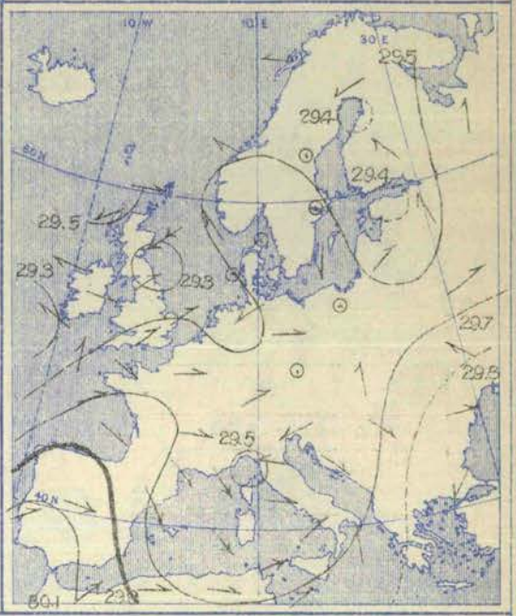
Temperature in morning highest, 54° to 48° on the southern shores of the Mediterranean, and exceeding 50° on the Portuguese coast and at Rochefort; 43° at Scilly, 42° at Jersey. Lowest, (1) 8° at Karlstad, and below 20° over Sweden and nearly the whole of Russia, 5° at Hermanstadt, 14° at Berlin, 19° at Vienna; 32° to 35° over the greater part of England and Scotland. Not much change later.

Barometer and Wind.

8 a.m.



6 p.m.



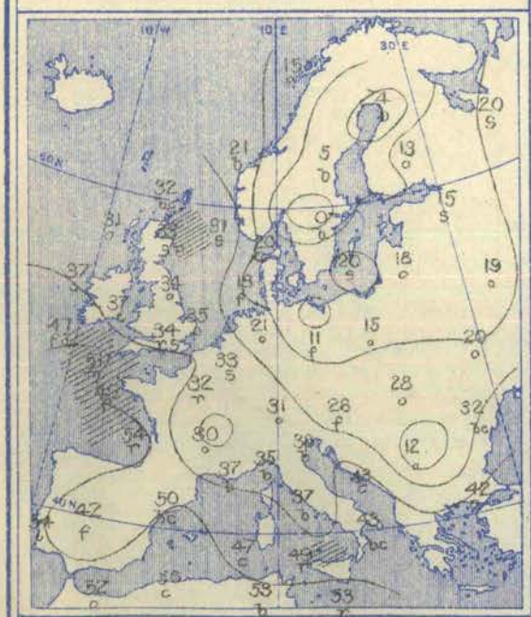
Wind unusually variable—several cyclonic circulations being noted over the Baltic, the British Islands, France, and the Mediterranean—but none of them strong, excepting those over the northern half of Scotland on the one hand, and the west of France on the other. Increasing to a gale over the latter region subsequently, as well as over the western parts of the Mediterranean, and varying greatly in direction over the English Channel and our southern counties.

Barometer highest, 30·1 ins. and more to 29·7 ins. over the greater part of Spain, and exceeding 29·7 ins. over all the southern parts of the Mediterranean, as well as over the southern parts of Russia, and over Lapland. Lowest, below 29·3 ins. in a complex series of depressions over the British Isles and France, and below 29·3 ins. in others over the Mediterranean, the Baltic, and the Adriatic. Distribution remaining very complex all day.

Monday, 1st February.

Temperature and Weather.

8 a.m.

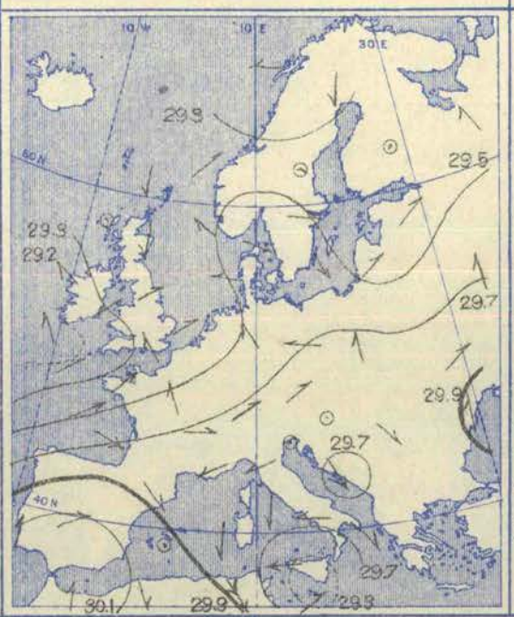


Weather in morning fair as a whole over Scandinavia and several of the northern parts of our Islands, also over the south of France and greater part of Italy—cloudy and unsettled elsewhere, with rain and snow over the southern parts of the United Kingdom; rain over the west and north of France, snow over Belgium and the north of Russia. Much rain over Sicily and Malta. Large falls of rain later, and some snow over France and England; hardly any in Scotland, but a considerable amount at Christiansund, and a very heavy fall (2·4 ins.) at Rome.

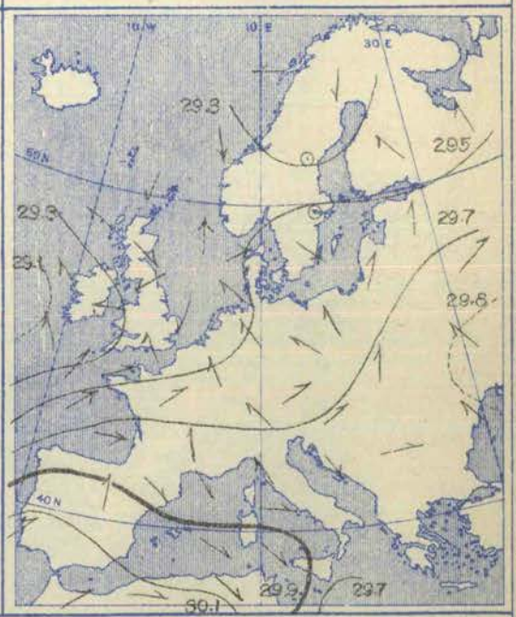
Temperature fallen over Northern Europe—rapidly in Scotland, risen over the south of our Islands and south-eastern Europe. Morning readings highest, 56° to 48° on the southern side of the Mediterranean, 52° at Rochefort, 51° at Scilly, 47° at Valencia and Prawle Point. Lowest, −4° at Uleaborg, 0° at Stockholm, +5° at Hernösand, and below 20° over northern Europe generally; 9° at Kharkov, 6° at Swinemunde, 11° at Berlin, 17° at Nairn, 19° at Wick. Touching 63° in the south of France later, 52° at Jersey and Scilly, but not touching 40° in the east and north of England, nor exceeding 37° at Nairn.

Barometer and Wind.

8 a.m.



6 p.m.

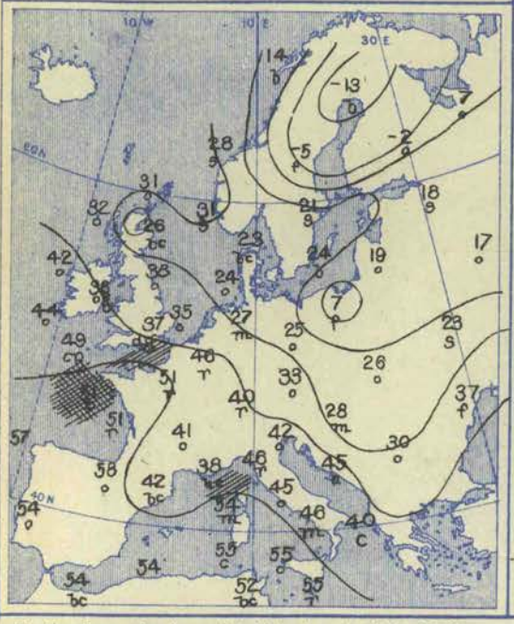


Wind very variable, (1) Westerly to Southerly over France and the English Channel, but South-Easterly to Easterly over Ireland and England; North-Westerly over Sweden, South-Westerly over the Baltic Provinces and very variable over central and south-eastern Europe. A well-marked cyclonic system of strong winds prevalent over Sicily, Malta and Tunis, and blowing a gale at Tunis itself. No decided change later.

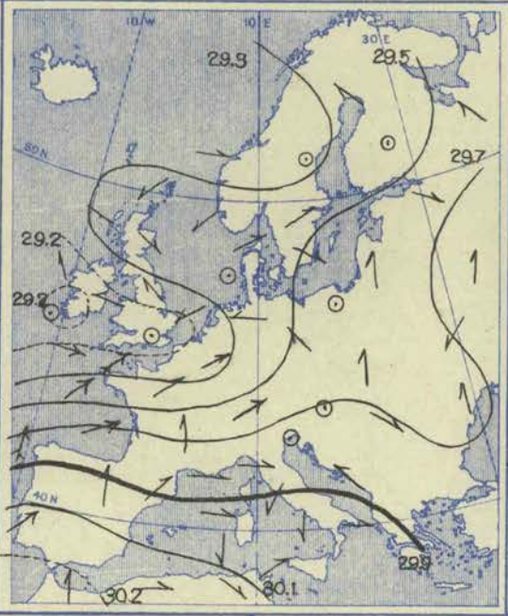
Barometer highest, 30·1 ins. and more to 29·8 ins. over the Iberian Peninsula, Morocco, and the south-western parts of the Mediterranean; exceeding 29·9 ins. over the south-east of Russia, and exceeding 29·5 ins. in a "ridge" stretching from Germany over Denmark and the south of Sweden. Lowest, below 29·3 ins. over the west and south-west of Ireland and the neighbouring parts of the Atlantic; below 29·3 ins. over Lapland, and below 29·6 ins. in a well-marked depression over Sicily and Malta. Changing little and irregularly over our Islands later.

Tuesday, 2nd February.

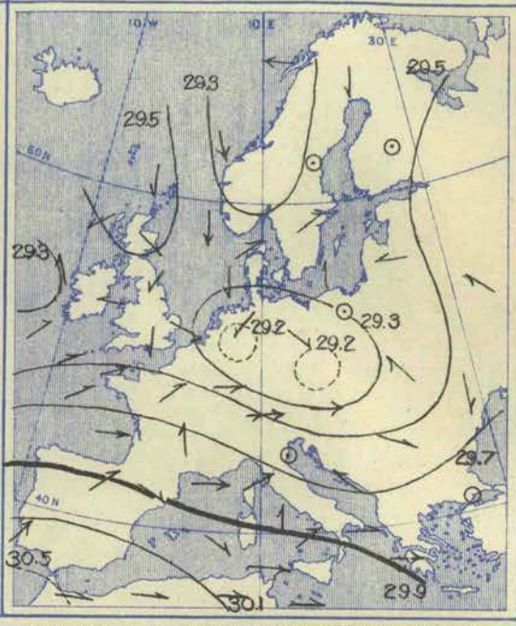
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright at most of the Mediterranean stations, as well as over Scotland and Lapland; very dull elsewhere, with snow over many of the eastern and northern Continental countries, rain over France and the south of England. Considerable rain later, and snow in the last-named district, and smaller quantities of snow over Scotland and Scandinavia.

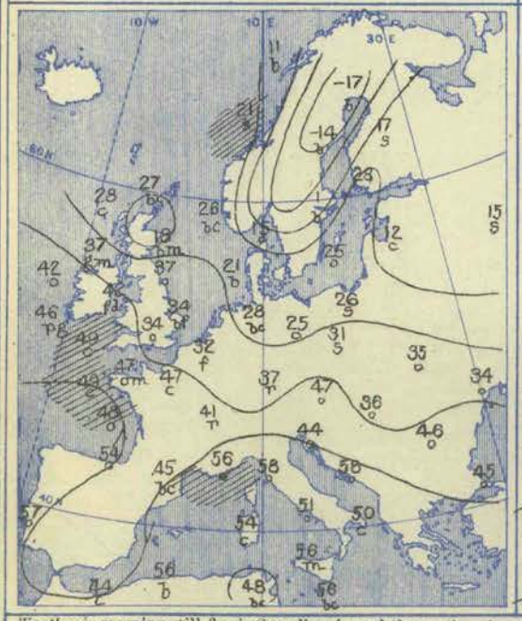
Temperature risen over France, Germany, Denmark, and the southern parts of Sweden. Morning readings highest, 50° to 58° on the coasts of Spain and northern Africa, 52° at Lorient and Jersey, 44° at Valencia (Ireland), and 43° at Dungeness. Lowest, −13° Fahr. at Haparanda, −5° at Hernösand, +7° at Archangel and Neufahrwasser, and much below the freezing point all over Russia, Scandinavia, and the northern parts of Germany; 16° at Nairn, 17° at Wick, 32° at the Helder. Cold becoming more intense at night over all the northern and north-eastern parts of Scotland; little change elsewhere.

Wind (1) Southerly to Westerly over Portugal and the Bay of Biscay, South-Westerly to Westerly over France and the English Channel, and strong in all those regions; South-Easterly and light over Germany, and still more Easterly over England and Ireland; (2) North-Westerly to Westerly, and light, over the east of Scotland and south of Scandinavia, but Easterly, light, over Lapland. Very light and variable over eastern and southern Europe. Hardly any change later.

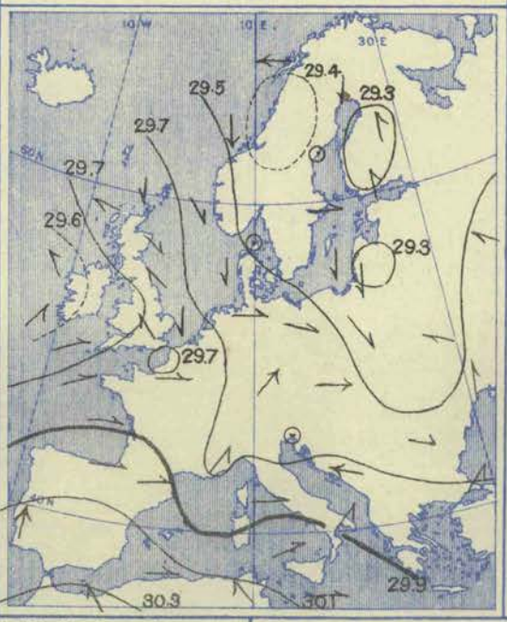
Barometer highest, 30·2 ins. and more over Algeria and Morocco, and exceeding 29·8 ins. over the Spanish Peninsula, the Mediterranean, and the Adriatic; 29·9 ins. and more to 29·8 ins. over eastern Russia. Lowest, below 29·2 ins. in a "trough" stretching in from the Atlantic over Ireland and the southern parts of England to Holland, and below 29·3 ins. over the northern parts of Norway and Sweden. Gradients somewhat steep over France and the Channel, slight and very variable elsewhere. Rising decidedly over western Europe later—especially over England.

Wednesday, 3rd February.

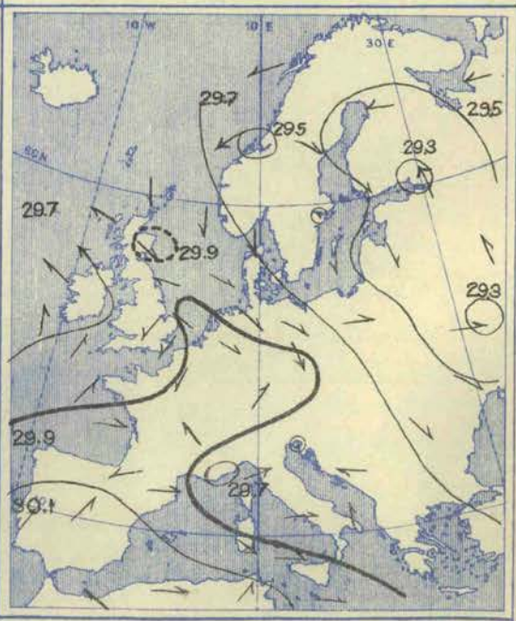
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still fine in Scandinavia and the north and east of Scotland, as well as over the southern parts of the Mediterranean, dull and unsettled elsewhere, with rain in many parts of Ireland, England, France, and the north of Italy, rain and snow over central Europe, and snow over Russia. Considerable rain falling later at Belfort (locally) and in Ireland; smaller quantities over England and in some parts of France—a little snow in the north; a very heavy fall of snow at Lemberg. Aurora seen at all northern stations at night.

Temperature still falling in the north, rising over central Europe, and at some of the English stations. Morning readings highest, 58° to 50° at the Mediterranean stations, with some exceptions, 54° at Biarritz, 50° at Lorient, 49° at Scilly, 47° at Paris, 42° at Holyhead and Belmullet. Lowest, (1).−17° Fahr. at Haparanda, −5° at Karlstad, and much below the freezing point over Russia and the Baltic; (2) 10° to 18° at the stations in the north-east of Scotland, but rather above the freezing point over England. Rising unsteadily later at our southern stations and in France, and touching 53° at Paris, 63° at Perpignan, and 70° at Nice and Algiers, 73° at Sfax, and 75° at Laghouat.

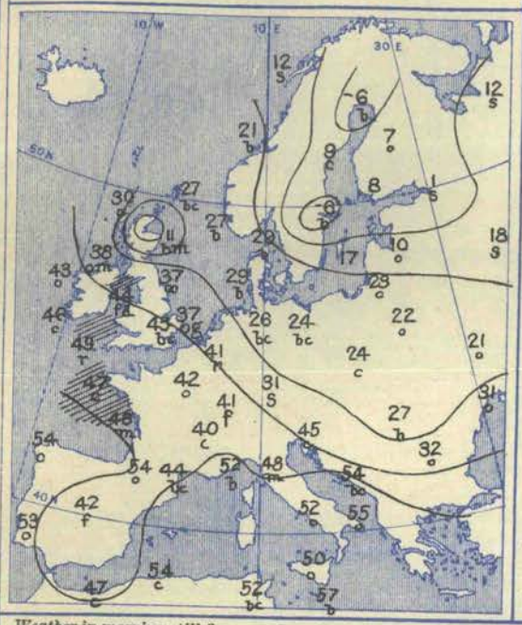
Wind, (1) Westerly to Southerly over France and the south-western parts of our Islands, South-Easterly on our north-west and north-east coasts, and moderate generally; (2) North-Westerly to Northerly over the east of Scotland, the North Sea, Scandinavia, and the Baltic, but Southerly over Finland; (3) chiefly Westerly over central Europe; (4) strong to moderate from North-West and West over the Mediterranean, light from South and South-East over central Russia. North-Easterly airs (local) over the south-east of England.

Barometer highest, 30·3 ins. and more to 30·0 ins. over northern Africa, the south-western parts of the Mediterranean and the Iberian Peninsula; (2) about 29·8 ins. over the north-east of Scotland. Lowest, below 29·3 ins. in shallow disturbances over Finland and the Baltic provinces; below 29·4 ins. over the northern half of Scandinavia, and below 29·6 ins. over the west of Ireland. A shallow local disturbance over the Gulf of Genoa and the Riviera. Rising over western Europe all day.

Thursday, 4th February.

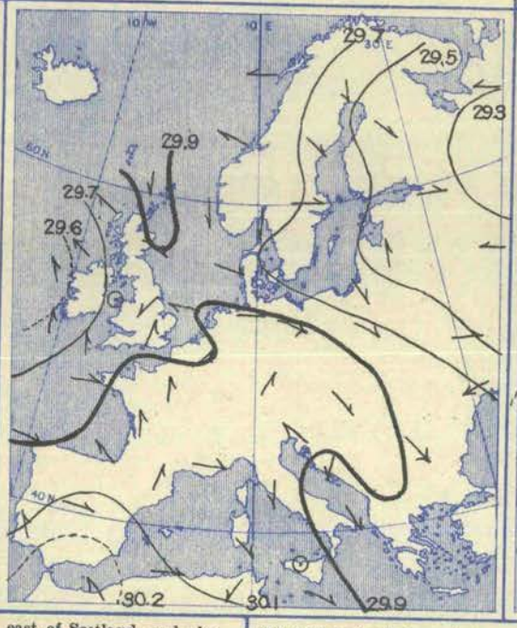
Temperature and Weather.

8 a.m.

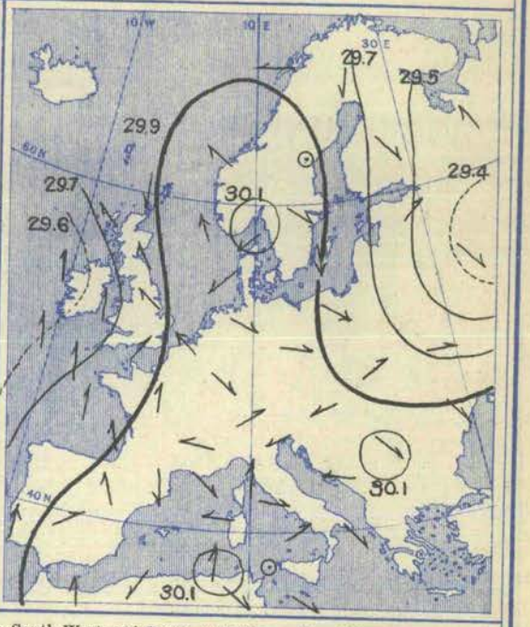


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine over Scandinavia and the north and east of Scotland, and also over Denmark and many parts of northern Germany, and over the southern half of the Mediterranean; cloudy or overcast elsewhere, with rain in many parts of Ireland, England, Belgium, and some parts of northern Italy; snow over the northern parts of Russia, Finland, and Lapland. Large quantities of rain over the south of England later, and considerable rain and snow over our north-eastern counties and Germany.

Temperature again fallen over Scotland, as well as over central Europe; also over Finland and some parts of the Baltic Provinces. Morning readings highest, 57° to 59° at most of the Mediterranean stations, and also on the coasts of Portugal and Spain; 49° to 46° on our own south-western coasts, 43° in London, 42° at Paris, 41° at Brussels. Lowest, −6° Fahr. at Haparanda and Stockholm, 0° at Helsingfors, 1° at St. Petersburg, and below 10° over nearly all the northern parts of Russia; 21° at Copenhagen, and also at Kiev and Münster; 4° at Nairn, 10° at Wick, 11° at Aberdeen. Rising rapidly over Scotland later; falling fast over Denmark and Germany.

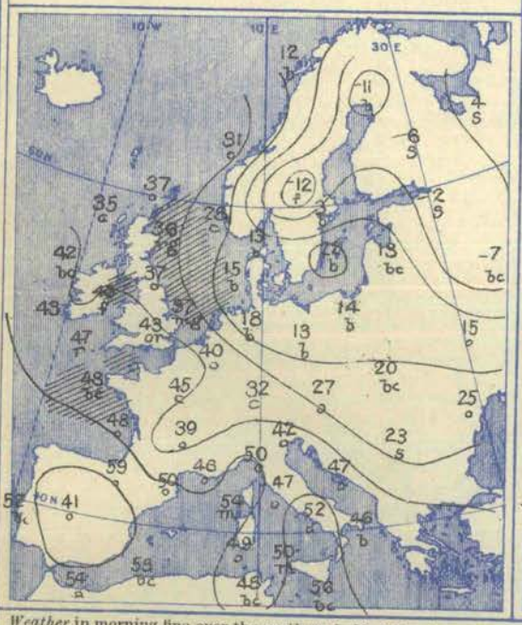
Wind (1) moderate from between South-West and South over the north of France and the southern parts of the United Kingdom, but South-Easterly to Easterly in the east and north; (2) Northerly to Westerly over the countries lying to the eastward of the North Sea, and over the eastern parts of central Europe; (3) a cyclonic circulation of light winds prevailing over the Mediterranean. The South-Easterly wind becoming strong over our northern districts later.

Barometer highest, 30·2 ins. and more over the south-west of Spain, and exceeding 29·9 ins. over Spain, France, and Germany; 29·9 ins. and more over the east of Scotland. Lowest, below 29·3 ins. over the northern half of Russia; below 29·6 ins. off the west coast of Ireland; and below 29·9 ins. over the northern parts of the Mediterranean. Further disturbances appearing later to the westward and south-westward of the United Kingdom, but the barometer rising fast over northern and central Europe.

Friday, 5th February.

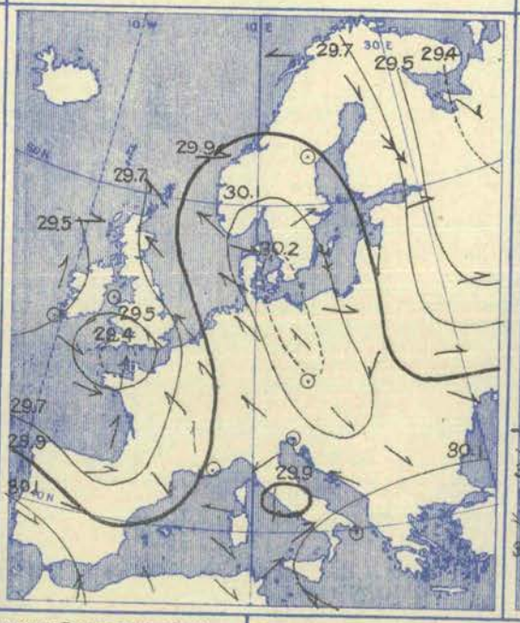
Temperature and Weather.

8 a.m.

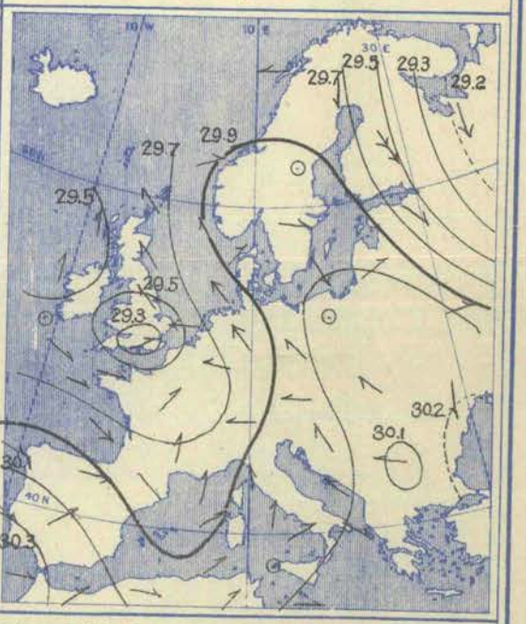


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the southern half of Russia, north Germany, Denmark, the Baltic, and the greater part of Scandinavia, as well as in some parts of Ireland and Scotland; overcast elsewhere, and very unsettled over England and France. Much rain still falling in the latter regions (0·98 in. at Loughborough during the day, 0·67 in. at Brussels, and nearly 3 ins. at Gap), snow in Finland and the north of Russia, and also at Breslau and Hermanstadt.

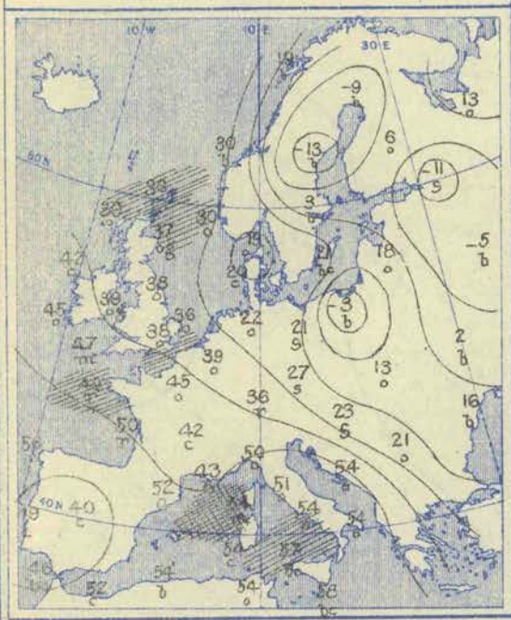
Temperature risen rapidly in Scotland (as much as 31° at Nairn), fallen very fast over north Germany, Denmark, some parts of Sweden, and over Finland and the northern parts of Russia, slightly over several parts of southern and south-eastern Europe. Highest, 56° to 59° on the southern shores of the Mediterranean, 52° to 53° on the Atlantic coasts of Spain and Portugal, 43° to 44° on our own south-western coasts, 44° at Paris. Lowest, −12° to zero Fahr. at many stations over northern Europe, much below 20° over Denmark, north Germany, and the south of Russia; above the freezing point all over the British Islands. Changing fitfully later; touching 72° at Algiers, 79° at Biskra, 64° at Cagliari and Palermo, but not reaching it in the south of France.

Wind (1) North-Westerly to Northerly over Finland, the Baltic Provinces, and north Germany, and blowing strongly at the more northern of the stations in those regions. Westerly and light over the southern half of Russia; (2) light and anticyclonic over central Europe; (3) strong to light and cyclonic (very complex) over the British Islands, France, and the Bay of Biscay; (4) light and cyclonic over the Mediterranean and the south of France. Blowing a moderate gale from East over the east of England later, and from West over London at night.

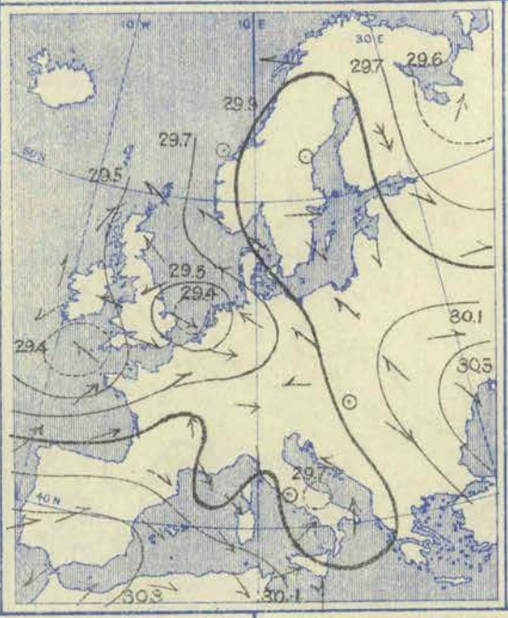
Barometer highest, (1) 30·2 ins. and more to 30·6 ins. in an anticyclone covering central Europe, the Baltic, Denmark, and the south of Scandinavia; (2) 30·1 ins. and more to 30·6 ins. over the southern parts of the Iberian Peninsula and the north of Africa. Lowest, below 29·4 ins. over the north of Russia, as well as in a small depression over the English Channel; below 29·5 ins. over the west of Ireland, and below 29·9 ins. in a shallow disturbance near Rome. Depression over English Channel moving north-eastwards later.

Saturday, 6th February.

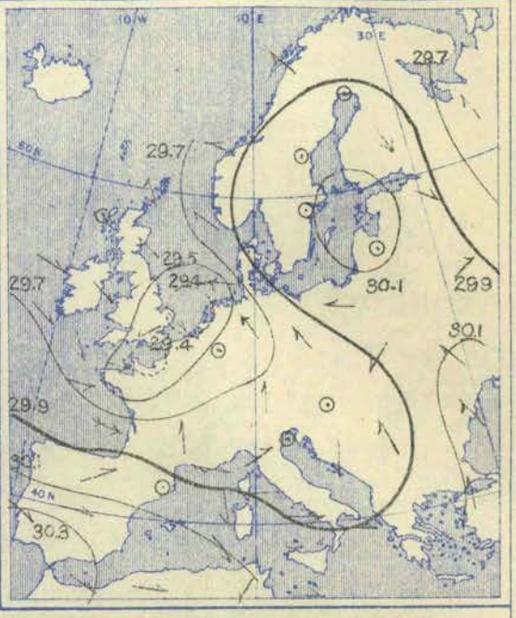
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Scandinavia and the Baltic, also over the southern shores of the Mediterranean and over central Russia; overcast generally elsewhere, with rain at all our south-western stations and the north-west and west of France, as well as at Munich, snow in many parts of Austria, and at St. Petersburg and Archangel. Rain falling later over the greater part of our Islands and France—heavily at Rochefort and Lorient, but in smaller quantities elsewhere—fine over northern Europe and Scotland.

Temperature changing very fitfully in various localities. Morning readings highest, 58° to 59° on the western, southern, and eastern coasts of the Mediterranean as a whole, 56° at Coruna, 50° to 49° along the west coast of France, 47° at Scilly, 45° at Valencia (Ireland). Lowest, −15° to −5° Fahr. in many parts of Finland and the north of Sweden, and below zero at Moscow, Kharkov, and Neu Fahrwasser; much below the freezing point over Germany and Austria, and in Norway. Rising later to 60° and more in the south of France, and to 50° and more over the south-western coasts of England, but not touching 40° over the northern and eastern parts of Great Britain.

Wind (1) light to moderate, and anticyclonic over south-eastern Europe, Austria, Germany, and the Baltic; (2) North-Westerly, strong, over Finland, but South-Westerly at Archangel: (3) light to strong over the British Isles and France—cyclonic but very complex in direction, but mainly Westerly at the southern stations. North-Westerly, strong to a gale, over the Mediterranean. Blowing a gale from West at Rochefort later.

Barometer highest, 30·3 ins. and more to 30·6 ins. in an anticyclone over the Iberian Peninsula, and in another over the Black Sea and south-west of Russia, and exceeding 30·0 ins. in a ridge stretching thence across western Russia and the Baltic to Sweden. Lowest, below 29·4 ins. in a small depression near the Helder, and in another approaching Cornwall from the westward; below 29·5 ins. off our north-western coasts, 29·6 ins. over the White Sea, and 29·8 ins. over the Gulf of Genoa. Rising at our western stations later, as the depression named above moved eastward.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶⟶ = a heavy gale; ⟶⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊖ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia: that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During almost the whole of this week the distribution of pressure over Europe has been of a most complex character. As a rule the barometer during the few first days was highest over Spain and the north of Africa, but the high pressure spread gradually all over the Mediterranean, and on the 4th and 5th spread northwards over central Europe also. In the meantime several small depressions appeared over the south-west and south of our Islands and the north of France, with the result that at the Irish, English, and French stations large quantities of rain fell, and (owing to the simultaneous melting of the snow which had fallen in January) heavy floods occurred, especially in the English rivers.

Scotland was, for the most part, under the influence of an independent anticyclone of slight intensity, and had fair, dry weather, but with temperatures so low that on Friday minima were recorded as low as −7° Fahr. at Braemar, 0° zero at Nairn, and +9° at Wick and Aberdeen.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 26.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	4·8	− 5·2	8	− 9	SOUTHPORT	0·8	?	1	?
OSWALDKIRK (Yorkshire)	1·1	−11·1	2	− 17	MANCHESTER (Oldham Road)	0·1*	?	0*	?
WORKSOP	1·5	− 9·3	2	− 16	COLWYN BAY	5·1	?	8	?
THURCASTON (Leicestershire)	0·0	−11·0	0	− 18	NEWQUAY	9·0	− 6·0	14	− 8
MARGATE	1·3	−11·5	2	− 18	TORQUAY	12·7*	− 3·0	20*	− 4
WESTBOURNE (Sussex)	0·0*	−14·5	0*	− 24	ARLEY COTTAGE (County Cavan)	0·6	−12·0	1	−20
BRIGHTON	0·0	−15·5	0	− 22	GUERNSEY	9·9*	− 5·8	15*	− 9
EASTBOURNE	0·0	−14·1	0	− 22					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 6.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 13TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 32.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	16	41·5	30·5	36·0	2 below	0	− 7	42	0	3	−35	359	+84
	1. SCOTLAND, EAST	50	19	42·4	29·9	36·2	1 below	1	− 8	43	0	1	−44	363	+97
	2. ENGLAND, N.E.	51	25	43·3	32·4	37·9	1 below	4	− 4	35	− 3	4	−35	284	+42
	3. ENGLAND, EAST	54	27	44·7	33·4	39·1	1 above	8	− 2	32	−10	8	−36	298	+20
	4. MIDLAND COUNTIES	56	25	45·8	34·4	40·2	2 above	12	+ 1	29	−14	12	−42	307	+30
	5. ENGLAND, SOUTH	52	28	46·1	38·1	42·2	2 above	18	+ 6	11	−23	30	−31	207	−18
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	50	21	43·5	33·9	38·7	1 below	4	− 6	29	− 1	7	−50	263	+72
	7. ENGLAND, N.W.	50	29	44·7	36·5	40·6	1 above	8	− 1	21	−10	9	−38	234	+32
	8. ENGLAND, S.W.	53	34	48·5	41·5	45·1	4 above	24	+ 8	1	−24	57	−28	148	−15
	9. IRELAND, NORTH	51	27	46·7	37·0	41·9	1 above	13	− 1	21	− 5	29	−55	217	+59
	10. IRELAND, SOUTH	54	34	50·2	41·5	45·9	3 above	29	+ 8	1	−19	76	−37	153	+21
	—CHANNEL ISLANDS	52	37	50·8	44·5	47·7	4 above	40	+19	0	−12	130	+ 5	59	−16

Rainfall.

	DISTRICTS. (See p. 32.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	6	6 less	25	− 7	2·8	− 4·6
	1. SCOTLAND, EAST	3	1	5 less	21	− 3	1·9	− 2·0
	2. ENGLAND, N.E.	2	2	3 less	30	+ 8	3·3	− 0·6
	3. ENGLAND, EAST	4	2	3 less	32	+ 9	3·9	+ 1·2
	4. MIDLAND COUNTIES	4	3	3 less	27	+ 4	4·1	+ 0·8
	5. ENGLAND, SOUTH	5	5	1 less	27	+ 5	4·7	+ 0·9
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	8	4 less	20	− 8	3·2	− 4·3
	7. ENGLAND, N.W.	5	5	2 less	27	+ 2	3·1	− 1·0
	8. ENGLAND, S.W.	6	13	5 more	29	+ 3	6·0	+ 0·8
	9. IRELAND, NORTH	4	6	1 less	26	− 3	3·1	− 1·7
	10. IRELAND, SOUTH	6	8	1 less	26	− 1	4·5	− 0·9
	—CHANNEL ISLANDS	7	8	1 more	56	+ 8	5·8	+ 1·2

Bright Sunshine.

	DISTRICTS. (See p. 32.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	11	+ 1	18	+ 1	56	+ 18	18	+ 6
	1. SCOTLAND, EAST	16	+ 3	25	+ 3	50	− 7	16	− 2
	2. ENGLAND, N.E.	14	+ 1	21	+ 1	49	− 9	14	− 3
	3. ENGLAND, EAST	9	− 6	14	− 9	42	− 29	12	− 9
	4. MIDLAND COUNTIES	9	− 6	14	− 8	45	− 22	13	− 6
	5. ENGLAND, SOUTH	4	−11	6	−17	46	− 26	13	− 7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	− 5	10	− 9	63	+ 8	19	+ 2
	7. ENGLAND, N.W.	3	− 8	5	−13	36	− 15	13	− 4
	8. ENGLAND, S.W.	6	−11	9	−16	69	− 11	19	− 3
	9. IRELAND, NORTH	5	− 8	8	−13	65	0	19	0
	10. IRELAND, SOUTH	2	−13	3	−21	83	+ 3	24	+ 1
	—CHANNEL ISLANDS	9	−10	13	−16	63	− 40	14	− 10

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, and the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued dull and unsettled over the Kingdom as a whole, but the amounts of rain were comparatively slight and less frequent than of late except at the south-western stations.

Temperature was rather above the mean in most districts, but a little below it over Scotland and in England N.E. The highest of the maxima were registered on the 9th, when the thermometer rose to 56° in the Midland counties and to between 54° and 50° in the other districts. The lowest of the minima, which were recorded on the 8th over England, the 13th in Scotland, and on irregular dates in Ireland, ranged from 16° in Scotland N. and 19° in Scotland E. to 34° in England S.W. and Ireland S., and to 37° in the Channel Islands.

Rainfall was less than the mean in all districts excepting England S.W. and the Channel Islands, where there was an excess. Over the north-eastern parts of Great Britain the fall was very slight.

Bright Sunshine again showed a deficiency in most districts, but was in excess in the north and east of Scotland and the north-east of England. The percentage of the possible duration ranged from 25 in Scotland E. and 21 in England N.E. to 6 in England S., 5 in England N.W., and to 3 in Ireland S.

Barometer and Wind.—At the commencement of the week a depression which had passed eastwards along the English Channel was moving away over Germany, and an anticyclone was spreading over our southern and south-western coasts from the southward, the winds being light or moderate from the North-Westward. On the 8th, however, the barometer began to fall in the west and north-west, and during the next few days the centre of a large depression moved eastwards to Scandinavia, and small secondary systems passed directly over our Islands. The wind consequently shifted to the South-Westward and Westward very generally, but continued light or moderate in force. As these disturbances travelled away the conditions over the United Kingdom became anticyclonic and the winds variable, but by the 13th another large depression had appeared in the far north, the anticyclone had moved southwards, and the winds had returned to the South-Westward or Westward.

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II.—DATA from which the SUMMARY on page 31 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	45	31	42·1	34·0	38·1	− 0·3	0	28	6	0·53	−0·27	*	*	*	*
	Stornoway	47	28	43·7	32·0	37·9	− 1·1	5	37	6	0·86	−0·13	12·7	+ 0·6	20	0
	Wick	43	24	40·1	30·9	35·5	− 2·5	0	46	2	0·13	−0·41	*	*	*	*
	Lairg Ⓢ	50	16	41·5	25·7	33·6	− 3·1	0	59	5	0·44	−0·34	*	*	*	*
	Glencarron Ⓢ	43	22	39·5	29·1	34·3	− 2·7	0	54	5	0·85	−1·05	*	*	*	*
	Fort Augustus Ⓢ	44	21	42·3	29·0	35·7	− 2·7	1	46	5	0·40	−0·48	9·9	+ 2·8	16	+ 4
	Fort William Ⓢ	44	25	41·1	33·0	37·1	− 1·7	0	34	5	0·85	−1·14	10·7	+ 0·3	17	0
1. SCOTLAND, E.	Nairn	45	22	42·1	27·7	34·9	− 2·9	0	50	4	0·13	−0·27	*	*	*	*
	Aberdeen	48	24	41·1	29·1	35·1	− 2·9	0	48	3	0·04	−0·56	17·7	+ 1·7	29	+ 3
	Braemar Ⓢ	42	19	38·3	28·6	33·5	− 1·3	0	60	1	0·11	−0·61	14·0†	+ 1·5†	23†	+ 2†
	Ochtertyre Ⓢ	50	25	45·3	30·6	38·0	+ 1·0	9	43	3	0·14	−0·84	*	*	*	*
	Leith	49	26	44·3	32·1	38·2	− 1·3	6	36	2	0·18	−0·22	*	*	*	*
	Marchmont Ⓢ	47	28	43·3	31·0	37·2	+ 0·2	4	40	3	0·26	−0·36	21·0	+ 7·2	33	+10
2. ENGLAND, N.E.	Alnwick Castle	49	27	42·2	30·5	36·4	− 2·0	1	41	2	0·18	−0·37	*	*	*	*
	Durham	48	25	42·4	30·1	36·3	− 1·7	1	42	2	0·06	−0·36	15·0	+ 1·2	23	0
	Shields	50	30	44·3	33·0	38·7	− 0·5	6	33	2	0·24	−0·16	*	*	*	*
	Scarborough Ⓜ	51	30	43·0	34·7	38·9	− 0·1	3	27	2	0·18	−0·30	*	*	*	*
	York	51	29	45·1	32·4	38·8	0·0	9	36	3	0·19	−0·23	12·5	+ 1·2	19	+ 1
	Spurn Head	48	31	42·7	33·7	38·2	− 0·8	2	30	3	0·07	−0·28	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	54	27	44·8	33·6	39·2	+ 0·9	8	31	6	0·19	−0·28	8·4	− 6·3	13	−11
	Yarmouth	51	30	42·0	33·3	37·7	− 0·5	0	30	4	0·08	−0·38	*	*	*	*
	Geldeston	53	28	44·3	33·3	38·8	− 0·2	6	32	4	0·13	−0·27	8·8	− 6·7	13	−11
	Cambridge	52	28	47·0	31·9	39·5	+ 0·7	14	39	3	0·10	−0·28	15·1	+ 0·1	23	0
	Rothamsted	51	28	45·5	34·8	40·2	+ 2·2	10	28	4	0·30	−0·22	4·0	−10·0	6	−16
4. MIDLAND COUNTIES	Harrogate Ⓜ	46	27	42·5	32·2	37·4	− 0·5	1	35	4	0·32	?	13·9	?	21	?
	Bawtry (Hesley Hall)	54	25	45·7	31·4	38·6	− 0·1	10	40	4	0·07	−0·33	*	*	*	*
	Loughborough	56	29	46·1	32·4	39·3	+ 0·3	11	37	2	0·10	−0·36	*	*	*	*
	Stamford (Duddington)	54	28	45·7	32·3	39·0	+ 0·4	10	37	3	0·13	−0·32	*	*	*	*
	Cheadle Ⓜ	53	30	43·0	34·1	38·6	+ 0·9	3	29	4	0·30	−0·32	*	*	*	*
	Shirley (near Solihull)	55	28	45·8	33·7	39·8	+ 1·5	11	32	4	0·15	?	*	*	*	*
	Churchstoke Ⓜ	54	33	46·8	36·3	41·6	+ 2·9	13	24	4	0·13	−0·50	9·7	− 4·3	15	− 6
	Hereford Ⓜ	56	33	49·5	37·4	43·5	+ 3·8	20	13	3	0·38	−0·15	*	*	*	*
	Cirencester	51	31	46·1	36·6	41·4	+ 3·2	11	22	6	0·75	+0·11	5·6	− 9·6	8	−15
	Oxford	52	32	46·7	37·9	42·3	+ 2·6	19	11	5	0·34	−0·14	1·7	−12·7	3	−19
5. ENGLAND, S.	London	51	29	46·0	37·1	41·6	+ 1·6	11	20	4	0·36	−0·08	1·2†	− 6·6†	2†	−10†
	North Foreland	51	31	44·7	36·0	40·4	+ 0·9	8	23	5	0·31	?	*	*	*	*
	Dungeness	46	28	43·7	36·3	40·0	+ 0·2	5	21	4	0·27	−0·24	*	*	*	*
	Hastings (St. Leonards)	48	30	44·3	37·3	40·8	+ 0·8	6	18	5	0·42	−0·16	4·8	−12·9	7	−20
	Southampton	52	34	49·5	40·5	45·0	+ 4·2	27	4	5	0·81	+0·15	4·6	−11·7	7	−18
	Hurst Castle	49	37	46·3	40·1	43·2	+ 2·2	16	5	5	0·64	+0·06	*	*	*	*
	Stowell Ⓜ	52	37	48·4	39·7	44·1	+ 4·4	24	6	5	0·85	+0·13	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	45	28	43·2	32·8	38·0	− 2·0	3	33	5	1·42	−0·38	*	*	*	*
	Glasgow	46	26	40·8	33·3	37·1	− 1·9	0	34	5	0·43	−0·45	4·8	− 4·1	8	− 6
	Ardrossan	48	29	44·7	34·1	39·4	− 0·8	8	20	5	0·32	−0·53	*	*	*	*
	Glenlee Ⓢ	48	21	43·1	31·4	37·3	− 0·6	3	38	5	0·52	−0·70	*	*	*	*
	Douglas (Isle of Man)	50	31	45·6	38·1	41·9	+ 1·1	10	17	4	1·07	+0·17	8·1	− 6·9	12	−12
7. ENGLAND, N.W.	Stonyhurst	46	31	41·8	33·7	37·8	− 1·0	0	29	5	0·60	−0·30	7·2	− 5·0	11	− 8
	Blackpool Ⓜ	46	29	44·4	33·9	39·2	− 0·1	7	30	4	0·48	−0·13	2·6	− 9·6	4	−16
	Manchester (Prestwich)	48	30	43·9	34·6	39·3	+ 0·5	5	28	5	0·51	−0·09	1·4	?	2	?
	Liverpool Obsy. (Bidston)	49	32	45·3	36·0	40·7	+ 0·7	9	24	5	0·30	−0·15	*	*	*	*
	Llandudno Ⓜ	50	38	46·7	40·0	43·4	+ 1·6	18	6	4	0·30	−0·26	*	*	*	*
	Holyhead	49	38	46·1	40.0	43·1	+ 1·3	16	6	4	0·58	−0·08	*	*	*	*
8. ENGLAND, S.W.	Llandovery	50	35	48·4	37·9	43·2	+ 4·6	26	11	7	1·25	+0·20	*	*	*	*
	Pembroke	47	41	46·7	43·4	45·1	+ 2·9	22	0	5	1·15	+0·41	1·7	−15·8	3	−23
	Clifton	50	36	47·6	40·5	44·1	+ 3·6	21	4	6	0·61	−0·09	*	*	*	*
	Arlington (N. Devon)	50	36	47·3	40·3	43·8	+ 3·0	20	5	6	2·92	+1·97	*	*	*	*
	Cullompton Ⓜ	53	34	50·0	41·3	45·7	+ 4·9	29	2	6	1·36	+0·66	5·9	− 8·6	9	−13
	Falmouth	53	38	50·5	44·2	47·4	+ 3·6	38	0	6	0·89	−0·08	7·8	− 9·4	12	−14
	Plymouth	51	37	49·6	42·9	46·3	+ 3·7	30	0	6	1·31	+0·53	5·4	−10·8	8	−17
	Prawle Point	49	37	47·6	41·7	44·7	+ 2·3	20	1	6	1·14	+0·69	*	*	*	*
9. IRELAND, N.	Malin Head	46	33	44·6	38·0	41·3	− 0·7	7	16	5	0·52	?	*	*	*	*
	Londonderry	50	31	47·0	37·7	42·4	+ 1·4	21	12	6	0·69	−0·09	*	*	*	*
	Edenfel (Omagh)	49	30	46·6	36·7	41·7	+ 2·7	13	22	3	0·82	+0·14	*	*	*	*
	Belmullet	49	30	47·9	36·7	42·3	− 0·8	24	15	4	0·66	−0·44	*	*	*	*
	Markree Castle	51	33	47·7	38·0	42·9	+ 2·7	23	11	5	0·62	−0·06	4·0	− 9·1	6	−15
	Armagh	50	27	47·0	36·7	41·9	+ 1·9	14	22	3	0·46	−0·07	6·5	− 6·6	10	−11
	Donaghadee	51	35	47·0	37·6	42·3	+ 1·3	21	12	4	0·44	−0·20	*	*	*	*
	Edgeworthstown	51	30	45·3	34·7	40·3	+ 1·3	11	28	5	0·66	−0·04	*	*	*	*
10. IRELAND, S.	Dublin	53	36	49·3	41·0	45·2	+ 2·8	27	3	4	0·38	−0·15	1·5	−14·5	2	−23
	Parsonstown	52	34	48·3	38·1	43·4	+ 2·4	26	11	6	0·28	−0·32	0·6	−13·9	1	−22
	Kilkenny	54	34	49·7	38·7	44·2	+ 2·5	29	9	6	0·58	−0·12	*	*	*	*
	Roche's Point	53	38	49·6	43·1	46·4	+ 2·6	31	0	6	1·11	+0·01	*	*	*	*
	Valencia	54	37	51·4	44·9	48·2	+ 3·2	43	0	7	1·47	+0·19	3·0	−12·8	5	−20
	Killarney	54	34	52·3	43·0	47·7	+ 4·2	40	0	5	0·83	?	*	*	*	*
	Foynes	?	40	?	43·2	?	?	?	?	6	0·76	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	52	42	51·6	45·9	48·8	+ 3·2	48	0	7	0·81	+0·09	9·1	?	14	?
	Jersey	52	37	50·0	43·1	46·6	+ 3·8	32	0	7	0·69	+0·04	8·7	−11·1	13	−18

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

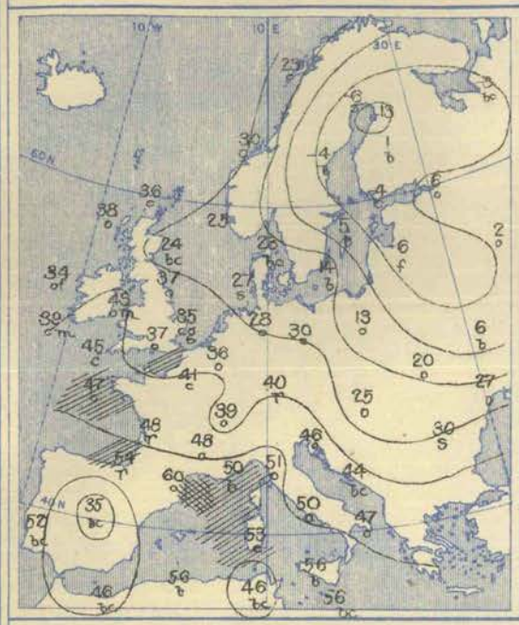
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 7th February.

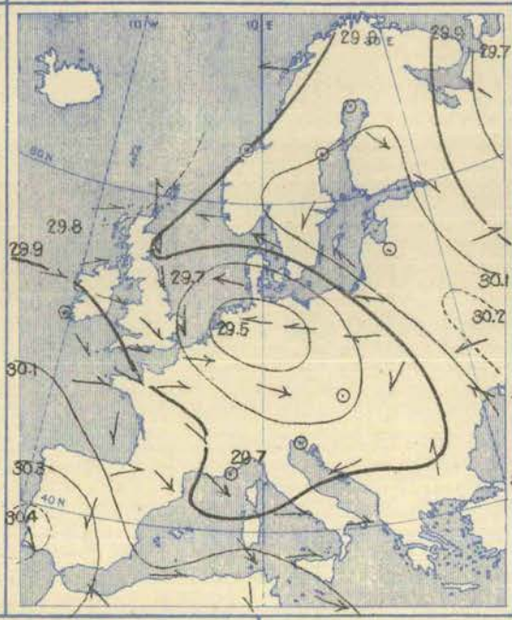
Temperature and Weather.

8 a.m.

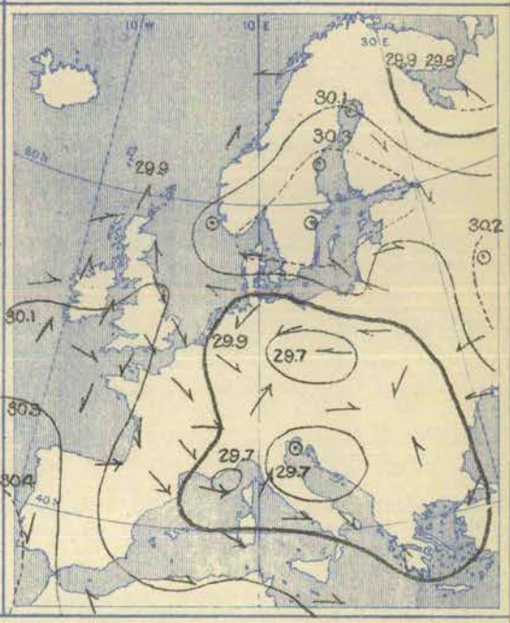


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the southern parts of the United Kingdom, but cloudy in the north, with fog or mist in places. Fine over the greater part of Sweden and the Baltic, as well as in the Spanish Peninsula and the extreme south of France; dull in most other parts of the Continent, with rain in the south-west of France, and snow at Haparanda, Fanö, and Hermanstadt. A little rain falling later in the west and extreme north of our Islands generally, and large quantities in the west of France and in Italy; snow reported at several of the German and Austrian stations.

Temperature changed very irregularly. Morning readings highest, 60° at Perpignan, 56° at Palermo, Malta, and Algiers, and 54° at Biarritz; above 50° at several of the Mediterranean and Spanish coast stations. Lowest, −13° Fahr. at Uleaborg, −7° at Kharkov, and −6° at Haparanda and Riga; considerably below the freezing point over northern and eastern Europe generally, and several degrees below it in the east of Scotland. Rising during day to 45° and upwards on our western and southern coasts, but remaining below 40° at many of our northern and eastern stations. Exceeding 60° in many parts of southern Europe.

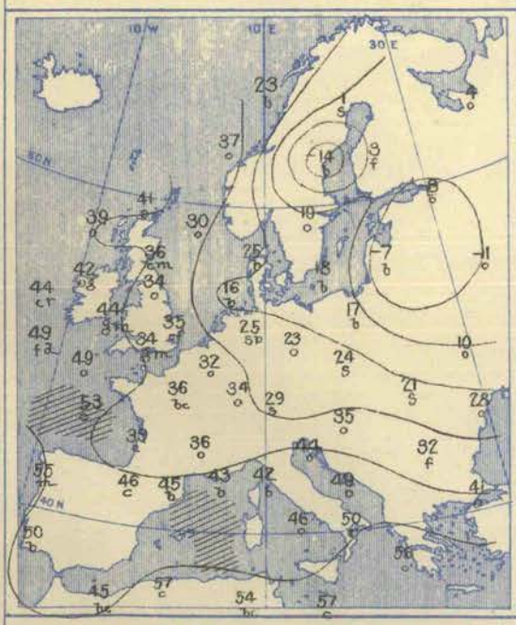
Wind light from the Westward or North-Westward over the greater part of our Islands and France, and South-Westerly over northern Italy. Easterly over Denmark, north Germany, and the south of Scandinavia; calm over the northern parts of Scandinavia; North-Westerly over northern Russia. Subsequently backing to the South-Westward or Southward in Ireland and Scotland; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying to the south-westward of the Spanish Peninsula; 30·2 ins. and upwards in another system over the south of Russia. Lowest, 29·5 ins. and less in a well-marked depression over north Germany; 29·7 ins. and less in a small disturbance over the south-east of France. German depression subsequently moving south-eastwards, and partially filling up; new, but shallow, disturbance forming over the northern parts of Italy and the Adriatic.

Monday, 8th February.

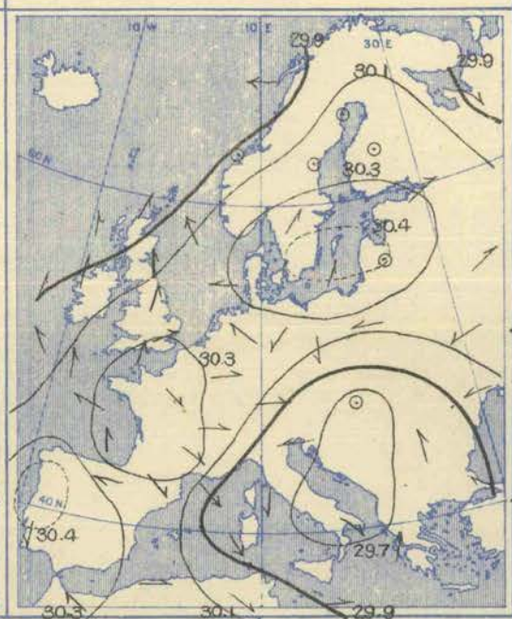
Temperature and Weather.

8 a.m.

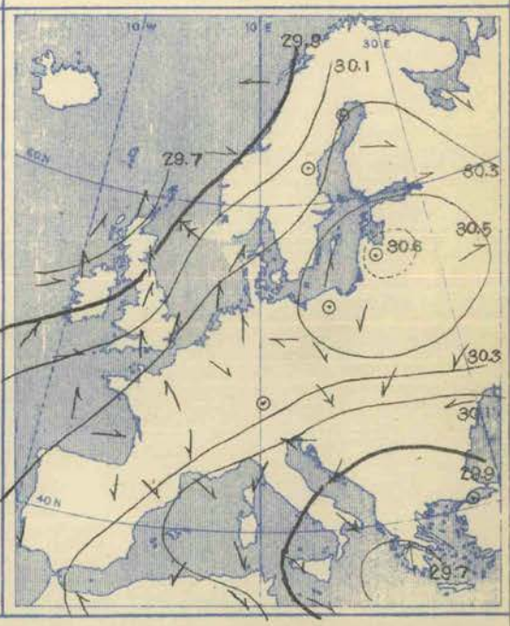


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull in most parts of our Islands, with rain at several of the Irish stations. Fine and bright over Denmark and the Baltic, and also over northern Italy and the southern parts of France and Spain; cloudy in most other parts of the Continent, with snow at several of the German, Austrian, and Russian stations. Rain falling later over nearly the whole of our Islands and their immediate neighbourhood, but amount mostly small.

Temperature risen in our Islands, and also in Scandinavia, Russia, and Austria, but fallen elsewhere. Morning readings highest, 57° at Malta and Algiers, 56° at Patras, and 55° at Corunna; above 50° at several of the Mediterranean and Spanish coast stations, and very little below it on our extreme south-west coasts. Lowest, −14° Fahr. at Hernösand, −8° at St. Petersburg, −7° at Riga, and −1° at Moscow; considerably below the freezing point in most parts of northern, eastern, and central Europe. Rising during day to 45° and upwards on our own western and southern coasts, exceeding 50° in the west and south of France, and exceeding 60° over the Spanish Peninsula, and the south of Italy.

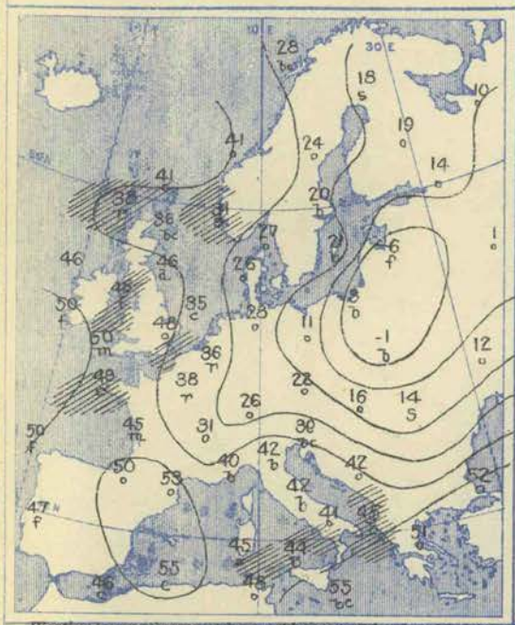
Wind light to moderate from the Southward over our Islands and their immediate neighbourhood. Calm or Westerly over the greater part of Scandinavia and northern Russia; varying between East and North over the Baltic, eastern Germany, and the south of Russia; variable in Austria and Italy; Northerly or North-Westerly over the Spanish Peninsula and the south of France; subsequently veering to the South-Westward in many parts of our Islands, and freshening considerably on our western and southern coasts.

Barometer highest, 30·4 ins. and upwards over the northern parts of the Baltic; 30·2 ins. and upwards in an anticyclone of irregular form embracing a considerable portion of western and northern Europe. Lowest, 29·6 ins. and less in a depression over the Adriatic; 29·8 ins. and less in another disturbance lying to the north-westward of our Islands. Former depression subsequently moving south-eastwards; latter system spreading eastwards and southwards, and barometer falling briskly on our western and northern coasts.

Tuesday, 9th February.

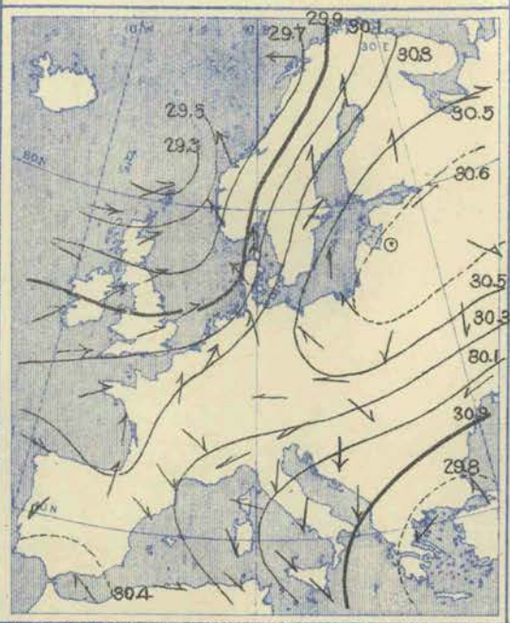
Temperature and Weather.

8 a.m.

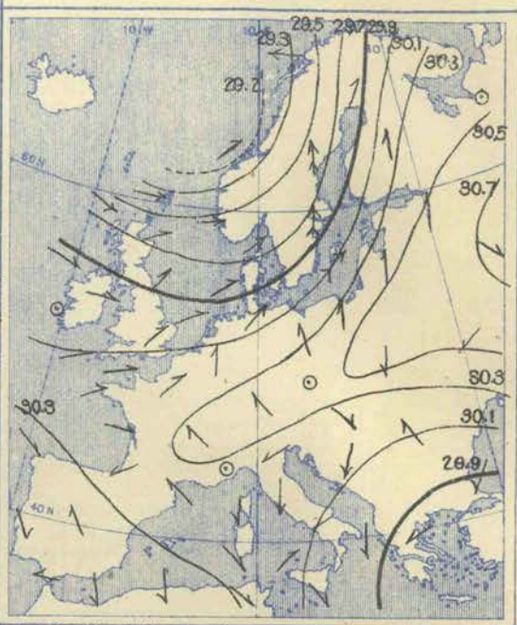


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very changeable in our Islands, with fog or mist on our west and south-west coasts, and with rain in several parts of Great Britain. Dull in most of the Continental countries, with rain in the Netherlands and the north-east of France, and with snow at Skudesnaes, Ulealborg, and Lemberg. Fine and bright over Italy and the extreme south of France. Slight rain falling later in many parts of our Islands, France, and Germany, and considerable quantities of snow in Sweden.

Temperature risen briskly over England, and also over Sweden and northern Russia; fallen in Germany, Austria, and Italy; changed irregularly elsewhere. Morning readings highest, 55° at Malta and Algiers, 54° at Sanguinaire and La Calle, and 53° at Barcelona; touching 50° on our own extreme south-west coasts. Lowest, −6° Fahr. at Riga, −3° at Neufahrwasser, and −1° at Memel and Warsaw. Considerably below the freezing point in most parts of Sweden, Germany, and Russia. Rising during day to 50° and upwards at many of the English and Irish stations, and to 56° at Loughborough; exceeding 55° also in the south of France, and exceeding 60° over the Spanish Peninsula.

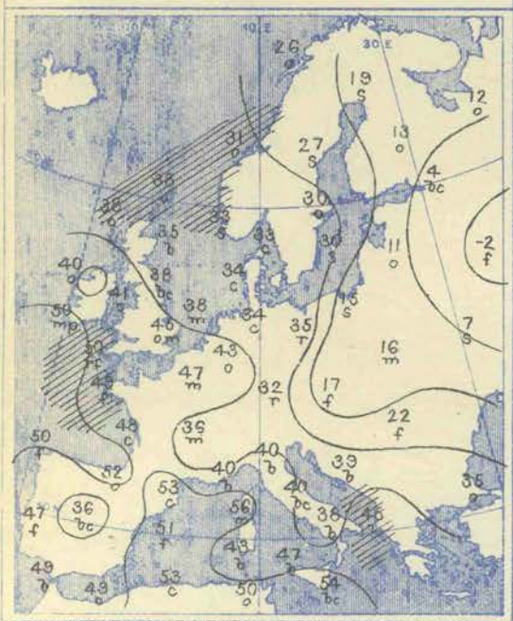
Wind light to fresh from the Westward or South-Westward over our Islands and the north of France; strong to a gale from the Southward or South-Eastward on the eastern shores of the North-Sea; moderate from the Southward over Sweden, and from the South-Westward over northern Russia. Easterly or North-Easterly in the south of Russia, Northerly in Austria and Italy, with a moderate gale at Brindisi; variable in Greece, and also in the south of France. Subsequently veering to the South-Westward on the eastern shores of the North Sea; Southerly gale springing up over Sweden and the Gulf of Finland.

Barometer highest, 30·6 ins. and upwards over the central parts of Russia; 30·4 ins. and upwards over Morocco and the extreme south of Spain. Lowest, 29·3 ins. and less in a large depression lying to the northward of our Islands; 29·8 ins. and less in another disturbance over Greece and Asia Minor. Northern depression subsequently travelling eastwards towards Scandinavia, and barometer rising in all parts of our Islands.

Wednesday, 10th February.

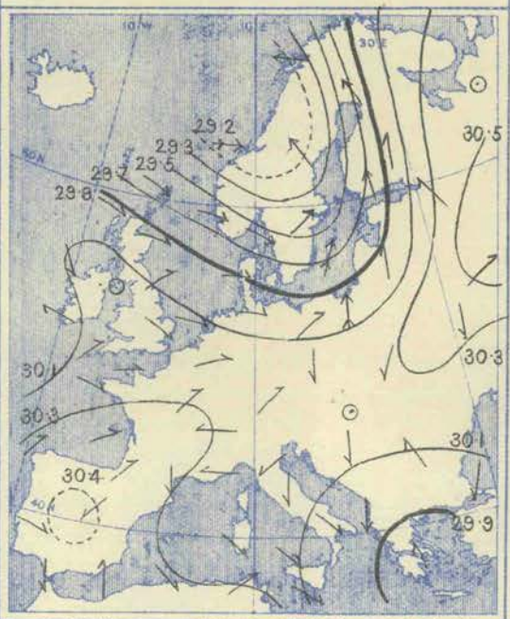
Temperature and Weather.

8 a.m.

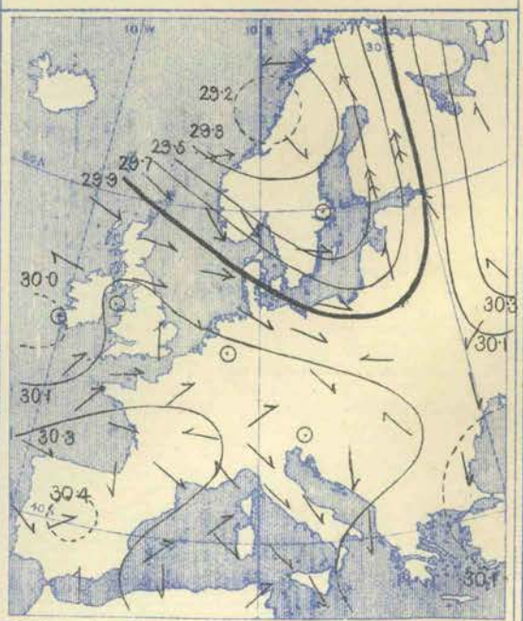


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine at several of our own northern and eastern stations, as well as over Holland, Denmark, and nearly the whole of southern Europe. Dull elsewhere, with much fog over the English Channel and the northern parts of the Bay of Biscay, rain on our extreme south-west coasts, as well as at Berlin, Munich, and Belfort, and snow at several of the Scandinavian and Baltic stations. Rain falling later in nearly all parts of England, Ireland, and France, rather heavily on our south-west coasts.

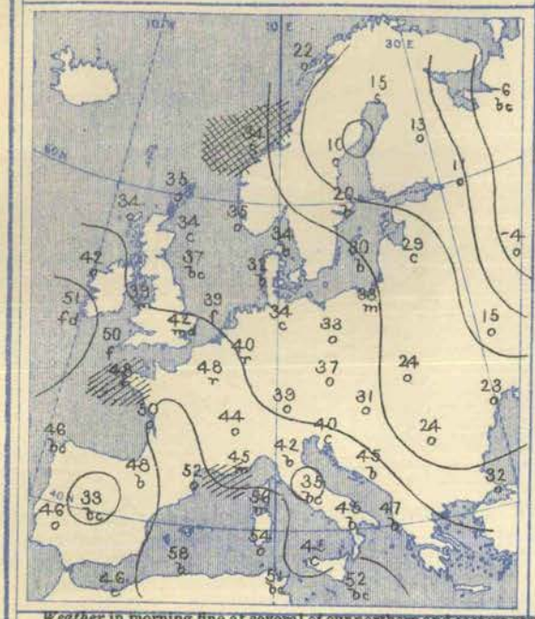
Temperature fallen in our Islands, and also over Austria and Italy, but risen in most other countries. Morning readings highest, 56° at Algiers, 54° at Malta, and 53° at Barcelona; touching 50° on our own extreme south-west coasts. Lowest, −2° at Moscow, +4° at St. Petersburg, 7° at Kiev, and 10° at Cracow; considerably below the freezing point in most parts of Russia, Austria, and eastern Germany, and slightly below it in some parts of central England. Rising during day to 45° and upwards at most of the English and Irish stations, and to 50° and upwards on our south-west coasts; exceeding 55° over southern Europe generally, and exceeding 60° over the Spanish Peninsula.

Wind light from the South-Westward over the south of England and the west and north of France; Easterly in the south of Ireland. Westerly or North-Westerly over the northern and eastern parts of our Islands, and also on the eastern shores of the North Sea; strong to a gale in the Shetlands and on the Norwegian coast. Moderate from the South-Westward in Germany, strong to a gale from the Southward over Finland, Sweden, and the Baltic. Calm in Austria, Northerly at most of the Spanish and Italian stations. Subsequently shifting to the Eastward in the north of Ireland; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards in an anticyclone over central Russia; 30·4 ins. and upwards in another system over central Spain. Lowest, 29·2 ins. and less in a large depression over the northern parts of Scandinavia; 29·9 ins. and less in a shallow disturbance over Greece; 30·1 ins. and less in a still shallower system lying to the south-westward of our Islands. Last mentioned system spreading slowly eastwards during day, and barometer falling over Ireland and England

Thursday, 11th February.

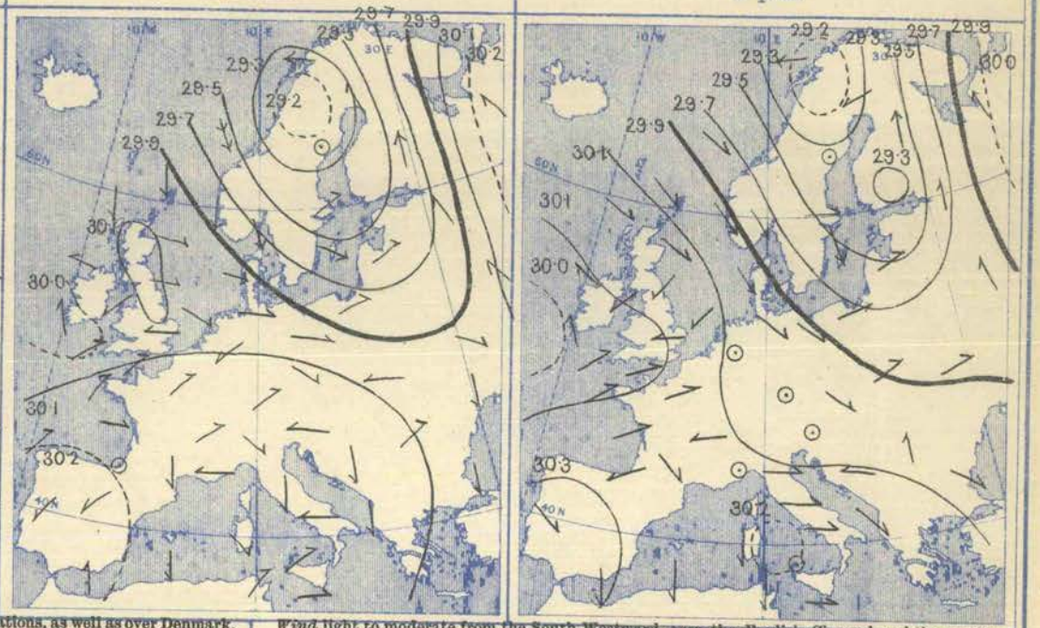
Temperature and Weather. 8 a.m.



Weather in morning fine at several of our northern and eastern stations, as well as over Denmark, the south of Sweden, and the greater part of southern Europe. Dull elsewhere, with rain and fog on our south and south-west coasts, and also in the north of France; rain falling also at Brussels and Belfort, and snow in Lapland, and at Christiansund and Moscow. Rain falling later over the southern parts of our Islands generally, and at many of the French and German stations; lunar halos seen at Stornoway and Holyhead.

Temperature fallen in all but the southern parts of our Islands, and also in Sweden; risen briskly over Austria, Poland, and the Baltic Provinces; changed irregularly elsewhere. Morning readings highest, 58° at Algiers, 56° at Sanguinaire, and 54° at Cagliari; touching 50° on our own extreme south-west coasts. Lowest, - 6° Fahr. at Archangel, - 4° at Moscow, and +10° at Hernösand; considerably below the freezing point over Sweden and Russia generally, and just touching it at Leith and York. Daily maxima below 45° in all the more northern and eastern parts of our Islands; thermometer exceeding 50° in the extreme south-west; exceeding 55° over Spain and the south of Italy.

Barometer and Wind. 8 a.m. and 6 p.m.

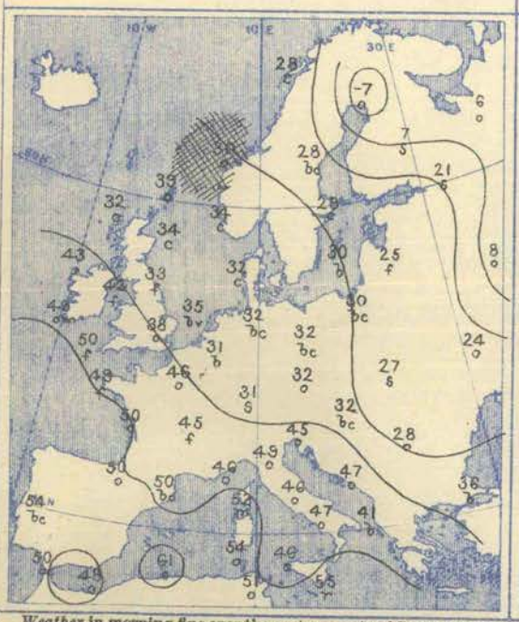


Wind light to moderate from the South-Westward over the English Channel and the greater part of France, but Easterly over Ireland, Wales, and the central parts of England. Light from the North-Westward in the north of Scotland, and strong from the same quarter on the eastern shores of the North Sea, with a gale at Christiansund; Westerly in Germany, Southerly over Finland, and South-Easterly in Lapland. Light from the Northward at most of the Spanish and Italian stations; variable in the south of France. Subsequently shifting to the Eastward over the eastern part of the English Channel.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the Spanish Peninsula; 30·2 ins. and upwards in another system over northern and central Russia; 30·1 ins. and upwards in a small area over the northern and central parts of Great Britain. Lowest, 29·2 ins. and less in a well-marked depression over Scandinavia; 30·0 ins and less in a very shallow system off our own extreme south-west coasts. Anticyclone over Great Britain increasing later, depression over Scandinavia remaining stationary, but secondary disturbance forming over the Gulf of Finland.

Friday, 12th February.

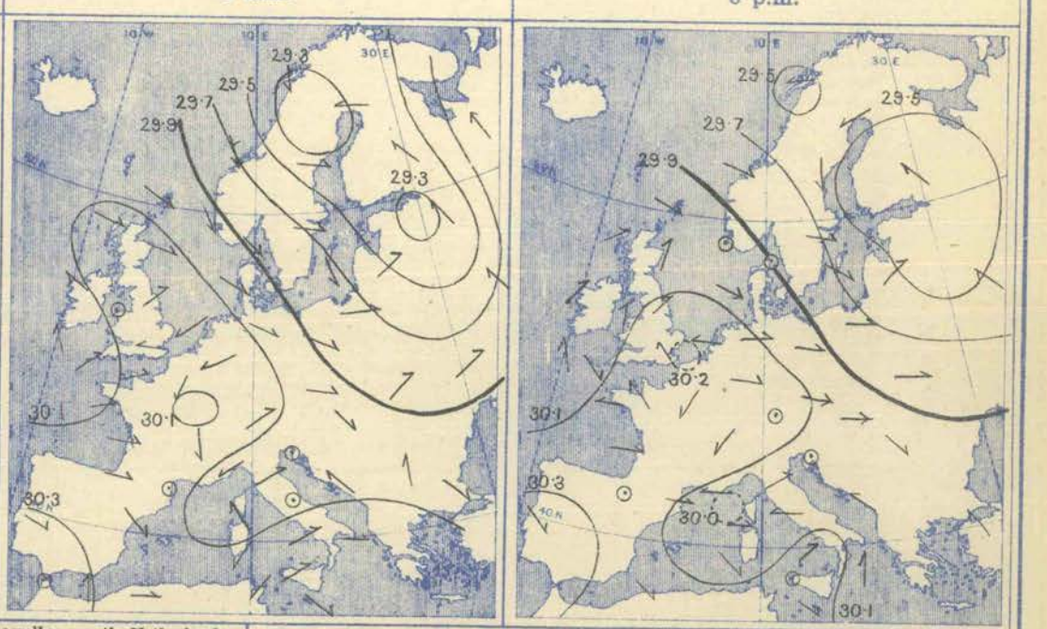
Temperature and Weather. 8 a.m.



Weather in morning fine over the eastern parts of Great Britain, as well as over the Netherlands, Denmark, the Baltic, the south of Sweden, and isolated parts of Spain and Italy; dull elsewhere, with rain and fog on our own south-west coasts, and with snow over Finland and the north of Scandinavia, as well as at Cracow, Lemberg, and Munich. Rain falling later in the western parts of our Islands generally, and very trifling amounts in several other parts of western Europe.

Temperature fallen in most of the western and central countries, but risen in the south, and also over Sweden and central Russia. Morning readings highest, 61° at Algiers, 55° at Malta, and 54° at Lisbon and Cagliari; touching 50° in the west of France and at Scilly. Lowest, - 7° Fahr. at Uleaborg, +6° at Archangel and Helsingfors, and 7° at Kuopio and Kharkov; slightly below the freezing point in Germany and Belgium, as well as at several of our own northern and eastern stations. Daily maxima below 45° in the north and east of our Islands; thermometer exceeding 50° on our south-west coasts, exceeding 55° in many parts of southern Europe, and reaching 64° at Croisette and Sanguinaire.

Barometer and Wind. 8 a.m. and 6 p.m.

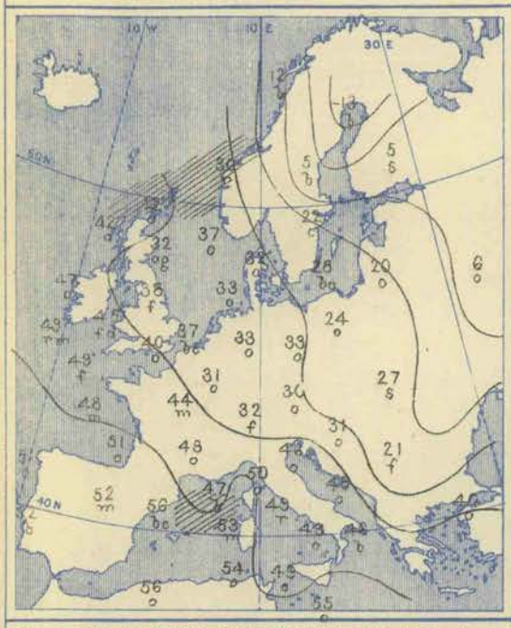


Wind light to moderate from the Eastward or North-Eastward over the greater part of England, but from the South-Eastward in Ireland. Light from the North-Westward in the north of Scotland, and moderate to strong from the same quarter over the greater part of northern and central Europe, with a gale at Christiansund; South-Easterly over the northern and central parts of Russia. Light from the Westward over the Spanish Peninsula and the Bay of Biscay, as well as at many of the Italian stations, but variable in the south of France. Subsequently shifting to the South-Westward or Southward in Scotland, and to the South-Eastward over England; no important change occurring elsewhere.

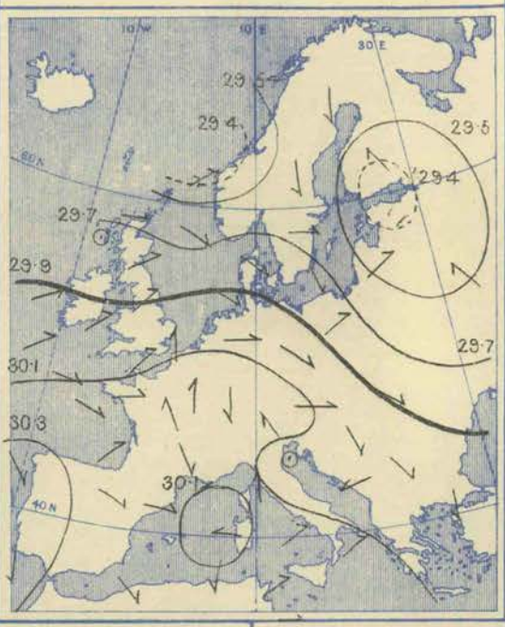
Barometer highest, 30·3 ins. and upwards over the southern parts of the Spanish Peninsula; 30·1 ins. and upwards in an anticyclone embracing a considerable portion of western and southern Europe. Lowest, 29·3 ins. and less in a large depression over the north of Scandinavia, and also in a smaller system over the Gulf of Finland. Barometer falling later in our Islands, most in the north; anticyclone giving way on its northern side.

Saturday, 13th February.

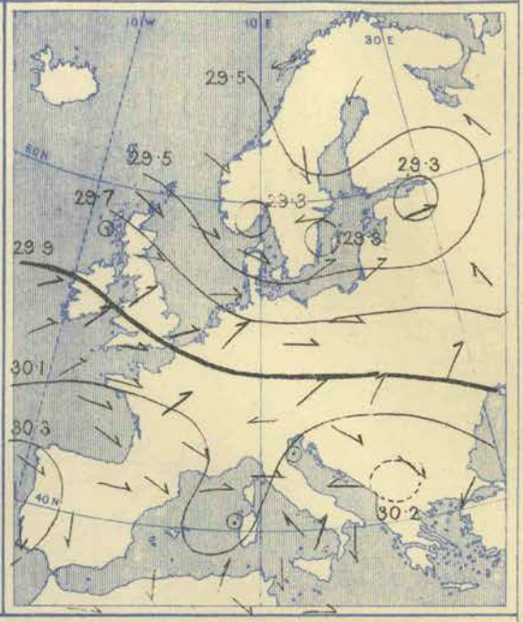
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over the greater part of our Islands and the Continent, with fog or mist in many places; rain falling in the north of England, as well as at Valencia (Ireland), Christiansund, and Rome, and snow at Kuopio, Breslau, and Lemberg. Fine in Sweden and the north of Norway, as well as over the Spanish Peninsula and the extreme south of France. Slight rain falling during day in nearly all parts of western and central Europe, and also at some of the Italian stations; snow reported in Russia and the south of Sweden.

Temperature risen in our Islands, and also in Italy and the south of France; fallen or changed irregularly elsewhere. Morning readings highest, 56° at Barcelona and Algiers, 55° at Malta, and 54° at Cagliari; above 50° on the Spanish and western French coasts, and very little below it in the extreme south-west of our Islands. Lowest, −13° Fahr. at Haparanda, +5° at Hernösand and Kuopio, and 6° at Moscow; below the freezing point in most parts of northern and central Europe, and just touching it at Aberdeen. Rising during day to 50° and upwards at several of our own western stations, and also at Loughborough; exceeding 55° over southern Europe generally, and reaching 64° at Sanguinaire and Barcelona.

Wind Westerly or South-Westerly over western and central Europe generally; light in force in most places, but blowing a strong gale at Christiansund. North-Westerly or Northerly over Sweden, the western parts of Russia, and at the Austrian stations. Variable over northern Italy and the extreme south of France; South-Westerly over southern Italy; Northerly or North-Westerly over the western parts of the Spanish Peninsula. No important change occurring over western Europe during day.

Barometer highest, 30·3 ins. and upwards over the western parts of the Spanish Peninsula, 30·1 ins. and upwards in an anticyclone covering the central and southern parts of Europe generally. Lowest, 29·4 ins. and less in two depressions—one lying off the west of Norway, and the other over Finland. Norwegian depression subsequently travelling south-eastwards to the south of Sweden; small secondary disturbances passing across our Islands during day.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of last week two high pressure systems were in existence—one off the Portuguese coasts, and the other over Russia and the southern parts of Scandinavia. On the 8th, when the systems temporarily coalesced, a large depression advanced from the Atlantic towards the Norwegian coasts; and in the course of the next day or two the centre of this disturbance travelled slowly eastwards across the north of Scandinavia, its progress being marked by gales from the Southward, veering to the North-Westward, and by snowstorms, in many parts of northern Europe. Small secondary disturbances advanced in the meantime across our Islands, these systems developing greater intensity as they moved away to the Continent, and occasioning a gradual dispersal of the high pressure area on its northern side. Later on the southern portion of the anticyclone spread northward over England, but at the close of the week it was again receding, while fresh disturbances were beginning to advance over Scandinavia from the westward. Over southern Europe the weather was mostly fair until the close of the week, when shallow depressions began to form over the Gulf of Genoa, and rain set in over Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 32.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	9·1	− 1·4	14	− 5	SOUTHPORT	2·1	?	3	?
OSWALDKIRK (Yorkshire)	13·4	+ 0·6	21	+ 1	MANCHESTER (Oldham Road)	0·0*	?	0*	?
WORKSOP	13·2	+ 0·9	20	+ 1	COLWYN BAY	6·7	?	10	?
THURCASTON (Leicestershire)	11·1	− 1·2	17	− 2	NEWQUAY	6·5	−10·3	10	−15
MARGATE	11·7	− 3·0	17	− 5	TORQUAY	9·2*	− 6·6	14*	−10
WESTBOURNE (Sussex)	2·9*	−13·1	4*	− 22	ARLEY COTTAGE (County Cavan)	4·5	− 8·7	7	−15
BRIGHTON	0·2	−15·3	0	− 24	GUERNSEY	9·2*	− 8·8	13*	−14
EASTBOURNE	5·0	−10·8	7	− 16					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 7.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 20TH, 1897. [*Price 6d.* *Annual Subscription, post paid,* £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 38.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	25	47·1	38·7	42·9	5 above	20	+13	9	−27	23	−22	348	+57
	1. SCOTLAND, EAST	57	32	48·3	37·6	43·0	5 above	25	+16	12	−30	26	−28	375	+67
	2. ENGLAND, N.E.	56	31	48·6	38·4	43·5	5 above	26	+17	10	−25	30	−18	294	+17
	3. ENGLAND, EAST	55	28	48·6	36·6	42·7	4 above	28	+16	15	−25	36	−20	313	− 5
	4. MIDLAND COUNTIES	57	26	50·1	38·1	44·1	5 above	31	+19	11	−28	43	−23	318	+ 2
	5. ENGLAND, SOUTH	55	29	48·5	38·1	43·3	3 above	25	+11	11	−20	55	−20	218	−38
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	34	48·6	40·8	44·7	5 above	24	+14	3	−26	31	−36	266	+46
	7. ENGLAND, N.W.	53	30	48·2	39·5	43·9	4 above	24	+14	7	−22	33	−24	241	+19
	8. ENGLAND, S.W.	55	31	49·3	40·4	44·9	3 above	27	+10	4	−20	84	−18	152	−35
	9. IRELAND, NORTH	58	31	50·4	40·1	45·2	5 above	30	+16	5	−20	50	−39	222	+30
	10. IRELAND, SOUTH	60	28	52·0	41·1	46·6	4 above	36	+15	3	−15	112	−22	156	+ 6
	—CHANNEL ISLANDS	52	32	50·0	41·8	45·9	2 above	28	+ 6	1	−10	158	+11	60	−26

Rainfall.

	DISTRICTS. (See p. 38.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	7	4 less	30	− 6	3·5	− 5·0
	1. SCOTLAND, EAST	3	3	3 less	24	− 3	2·2	− 2·2
	2. ENGLAND, N.E.	3	3	1 less	33	+ 7	3·6	− 0·5
	3. ENGLAND, EAST	4	4	0 (average)	36	+ 9	4·3	+ 1·2
	4. MIDLAND COUNTIES	3	4	0 (average)	30	+ 4	4·5	+ 0·7
	5. ENGLAND, SOUTH	3	3	2 less	30	+ 4	5·0	+ 0·7
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	5	5 less	24	− 8	3·5*	− 5·0
	7. ENGLAND, N.W.	4	5	1 less	31	+ 2	3·6	− 1·1
	8. ENGLAND, S.W.	3	9	1 more	32	+ 2	6·9	+ 1·0
	9. IRELAND, NORTH	4	3	4 less	30	− 3	3·4	− 2·1
	10. IRELAND, SOUTH	3	5	2 less	29	− 2	5·0	− 1·2
	—CHANNEL ISLANDS	3	3	3 less	59	+ 6	6·1	+ 0·9

Bright Sunshine.

	DISTRICTS. (See p. 38.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	− 7	7	−12	61	+ 11	16	+ 3
	1. SCOTLAND, EAST	12	− 4	18	− 7	62	− 11	16	− 3
	2. ENGLAND, N.E.	14	− 1	21	− 2	63	− 10	16	− 2
	3. ENGLAND, EAST	13	− 4	19	− 6	55	− 33	13	− 8
	4. MIDLAND COUNTIES	15	− 1	21	− 2	60	− 23	14	− 6
	5. ENGLAND, SOUTH	19	+ 2	28	+ 3	65	− 23	15	− 6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	13	− 1	20	− 1	76	+ 8	19	+ 2
	7. ENGLAND, N.W.	15	0	22	0	51	− 15	15	− 3
	8. ENGLAND, S.W.	23	+ 4	32	+ 5	92	− 6	21	− 3
	9. IRELAND, NORTH	20	+ 5	29	+ 6	85	+ 5	21	0
	10. IRELAND, SOUTH	17	0	24	0	100	+ 3	24	+ 1
	—CHANNEL ISLANDS	29	+10	41	+13	92	− 29	19	− 7

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, and the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather was much finer and drier than of late during the earlier half of the week; by Thursday, however, unsettled, rainy conditions had set in in the extreme west and north, and by the end of the week had spread to all parts of the Kingdom.

Temperature was much above the mean everywhere, the excess ranging from 2° in the Channel Islands and 3° in England S.W. and S. to 5° over Scotland, England N.E. and the Midland counties, and also in Ireland N. The highest of the maxima were recorded either on the 19th or 20th, when they ranged from 60° in Ireland S. to 53° in England N.W., and to 52° in the Channel Islands. The lowest of the minima occurred, as a rule, about the middle of the week, and varied from 25° in Scotland N. and 26° over the Midland counties to 32° in Scotland E. and the Channel Islands and to 34° in Scotland W.

Rainfall slightly exceeded the mean in England S.W., and was just equal to it in England E. and the Midland counties. In all other parts of the Kingdom there was a deficit.

Bright Sunshine was deficient in nearly all districts, but considerably exceeded the normal in the Channel Islands, and to a less extent in England S. and Ireland N. The percentage of the possible duration ranged from 41 in the Channel Islands and from 32 in England S.W. to 18 in Scotland E. and to 7 in Scotland N.

Barometer and Wind.—The distribution of pressure over our Islands was mainly anticyclonic during the earlier days of the period, while the winds (at first variable) gradually became South-Westerly or Southerly. As the week progressed, however, the anticyclone moved away south-eastwards and large depressions skirted our western and northern coasts, while some secondary systems passed directly over us. The most important of these secondaries moved very rapidly East-South-Eastwards over the northern parts of Ireland and England on the night of the 20th-21st, and produced strong gales for a short time at some of our north-western and north-eastern stations, and strong winds in many other parts of the Kingdom.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 37 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	30	44·6	37·1	40·9	+ 2·9	7	19	3	0·24	−0·54	*	*	*	*
	Stornoway	50	35	47·6	39·3	43·5	+ 4·5	22	8	5	0·78	−0·17	9·9	− 5·1	15	− 8
	Wick	52	35	47·6	38·9	43·3	+ 5·3	22	9	2	0·11	−0·45	*	*	*	*
	Lairg Ⓢ	54	33	48·4	37·4	42·9	+ 6·2	26	13	4	0·46	−0·30	*	*	*	*
	Glencarron Ⓢ	53	33	47·0	38·1	42·6	+ 5·6	21	11	7	1·09	−0·56	*	*	*	*
	Fort Augustus Ⓢ	52	25	47·8	38·6	43·2	+ 4·6	23	10	6	0·44	−0·54	2·9	− 6·1	4	−10
	Fort William Ⓢ	50	39	46·7	41·5	44·1	+ 4·9	17	1	7	1·57	−0·33	1·5	−11·5	2	−18
1. SCOTLAND, E.	Nairn	57	34	49·1	37·9	43·5	+ 5·5	28	11	4	0·19	−0·26	*	*	*	*
	Aberdeen	55	32	48·0	35·9	42·0	+ 3·9	17	17	2	0·13	−0·43	8·1	− 9·8	12	−15
	Braemar Ⓢ	53	33	47·1	36·6	41·9	+ 7·1	14	23	2	0·25	−0·46	12·2†	− 4·1†	18†	− 9†
	Ochtertyre Ⓢ	54	34	48·0	38·3	43·2	+ 5·9	24	10	4	0·77	−0·08	*	*	*	*
	Leith	56	35	49·9	39·7	44·8	+ 5·0	29	6	1	0·15	−0·21	*	*	*	*
	Marchmont Ⓢ	54	35	47·6	36·9	42·3	+ 5·0	24	14	2	0·33	−0·25	10·8	− 5·3	16	− 9
2. ENGLAND, N.E.	Alnwick Castle	52	36	48·1	39·6	43·9	+ 5·5	23	7	2	0·16	−0·36	*	*	*	*
	Durham	56	32	49·7	38·5	44·1	+ 6·1	29	10	3	0·23	−0·17	17·1	+ 1·3	25	0
	Shields	55	36	49·4	38·9	44·2	+ 5·0	28	9	2	0·29	−0·06	*	*	*	*
	Scarborough Ⓜ	53	33	47·9	37·6	42·8	+ 3·8	24	12	3	0·40	−0·02	*	*	*	*
	York	53	31	49·9	37·3	43·6	+ 4·6	31	13	5	0·23	−0·17	14·3	+ 0·3	21	0
	Spurn Head	52	35	46·6	38·3	42·5	+ 3·5	19	10	4	0·57	+0·27	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	53	30	48·6	38·3	43·5	+ 5·3	26	10	6	0·62	+0·20	11·4	− 5·6	17	− 8
	Yarmouth	50	32	46·1	35·0	40·6	+ 2·4	11	28	2	0·19	−0·21	*	*	*	*
	Geldeston	53	31	48·5	37·5	43·0	+ 4·0	26	13	4	0·33	−0·03	12·1	− 5·4	18	− 8
	Cambridge	55	28	50·7	36·4	43·6	+ 4·6	35	16	4	0·27	−0·06	16·8	− 0·1	24	− 1
	Rothamsted	54	27	49·2	35·9	42·6	+ 4·2	30	17	5	0·38	−0·09	12·4	− 3·6	18	− 6
4. MIDLAND COUNTIES	Harrogate Ⓜ	52	33	48·4	38·2	43·3	+ 5·1	25	11	4	0·40	?	14·5	?	21	?
	Bawtry (Hesley Hall)	53	32	50·4	36·4	43·4	+ 4·4	33	16	4	0·42	+0·06	*	*	*	*
	Loughborough	57	32	51·6	38·7	45·2	+ 6·0	36	9	4	0·48	+0·08	*	*	*	*
	Stamford (Duddington)	53	30	49·9	38·3	44·1	+ 5·1	30	10	4	0·39	+0·01	*	*	*	*
	Cheadle Ⓜ	52	29	48·5	38·4	43·5	+ 5·7	26	10	4	0·72	+0·16	*	*	*	*
	Shirley (near Solihull)	53	29	49·7	38·6	44·2	+ 5·2	30	10	3	0·43	?	*	*	*	*
	Churchstoke Ⓜ	53	30	50·1	37·7	43·9	+ 5·1	31	12	3	0·31	−0·25	17·1	+ 1·1	25	+ 2
	Hereford Ⓜ	56	29	51·7	37·1	44·4	+ 4·5	37	14	2	0·30	−0·15	*	*	*	*
	Cirencester	53	26	49·9	38·0	44·0	+ 5·5	31	11	3	0·42	−0·12	18·3	+ 0·7	26	0
	Oxford	55	31	50·7	39·1	44·9	+ 5·0	32	8	3	0·44	+0·02	13·0	− 3·0	19	− 4
5. ENGLAND, S.	London	55	29	50·6	38·0	44·3	+ 4·1	33	11	3	0·23	−0·15	11·6†	+ 2·6†	17†	+ 3†
	North Foreland	51	33	46·4	36·7	41·6	+ 1·9	12	22	1	0·04	?	*	*	*	*
	Dungeness	52	30	46·9	36·6	41·8	+ 1·9	14	23	3	0·07	−0·33	*	*	*	*
	Hastings (St. Leonards)	53	32	46·8	37·0	41·9	+ 1·9	13	21	4	0·27	−0·21	21·6	+ 1·6	31	+ 2
	Southampton	55	31	51·5	39·4	45·5	+ 4·5	35	7	3	0·29	−0·27	17·8	− 0·5	25	− 2
	Hurst Castle	53	34	48·4	40·1	44·3	+ 3·3	24	5	3	0·34	−0·15	*	*	*	*
	Stowell Ⓜ	53	31	49·0	39·0	44·0	+ 4·0	27	8	4	0·55	−0·10	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	54	39	49·4	41·5	45·5	+ 5·5	27	1	5	1·17‡	−0·47‡	*	*	*	*
	Glasgow	52	37	47·7	40·8	44·3	+ 5·3	21	3	4	0·24	−0·56	9·1	− 1·3	14	− 2
	Ardrossan	49	37	46·9	41·1	44·0	+ 3·7	18	3	5	0·15	−0·52	*	*	*	*
	Glenlee Ⓢ	53	38	50·1	41·3	45·7	+ 7·3	29	2	4	0·71	−0·39	*	*	*	*
	Douglas (Isle of Man)	53	34	49·1	39·5	44·3	+ 3·5	27	7	3	0·32	−0·45	17·0	0·0	25	0
7. ENGLAND, N.W.	Stonyhurst	49	32	46·6	39·2	42·9	+ 4·1	18	8	4	1·10	+0·28	13·6	− 0·4	20	− 1
	Blackpool Ⓜ	49	39	48·1	36·9	42·5	+ 3·3	25	14	4	0·55	+0·05	15·8	+ 1·3	23	+ 1
	Manchester (Prestwich)	51	30	48·2	38·8	43·5	+ 4·7	24	9	4	0·57	+0·05	12·5	?	18	?
	Liverpool Obsy. (Bidston)	52	34	49·1	39·4	44·3	+ 4·0	27	7	3	0·14	−0·24	*	*	*	*
	Llandudno Ⓜ	53	35	49·9	41·6	45·8	+ 4·0	28	1	4	0·28	−0·19	*	*	*	*
	Holyhead	49	37	47·6	41·1	44·4	+ 2·4	21	3	2	0·34	−0·24	*	*	*	*
8. ENGLAND, S.W.	Llandovery	55	31	50·4	37·6	44·0	+ 4·6	32	12	4	1·37	+0·44	*	*	*	*
	Pembroke	48	40	46·7	42·9	44·8	+ 2·5	20	0	2	0·58	−0·04	19·7	+ 0·7	29	+ 1
	Clifton	52	36	49·8	41·4	45·6	+ 4·8	28	2	3	0·50	−0·09	*	*	*	*
	Arlington (N. Devon)	51	32	48·1	37·4	42·8	+ 1·9	25	13	4	1·54	+0·56	*	*	*	*
	Cullompton Ⓜ	55	31	51·3	39·6	45·5	+ 4·4	35	7	3	0·42	−0·30	19·0	+ 2·2	27	+ 2
	Falmouth	53	36	49·6	42·9	46·3	+ 2·5	30	0	3	0·86	−0·11	27·4	+ 7·7	39	+11
	Plymouth	55	33	50·1	40·5	45·3	+ 2·8	29	4	3	0·77	+0·10	24·5	+ 4·8	35	+ 7
	Prawle Point	52	36	48·6	40·7	44·7	+ 2·7	24	4	3	0·74	+0·28	*	*	*	*
9. IRELAND, N.	Malin Head	52	40	48·7	41·9	45·3	+ 3·4	24	0	3	0·38	?	*	*	*	*
	Londonderry	55	36	50·9	40·7	45·8	+ 4·8	32	4	5	0·40	−0·23	*	*	*	*
	Edenfel (Omagh)	52	35	49·4	39·7	44·6	+ 5·6	23	6	2	0·22	−0·35	*	*	*	*
	Belmullet	52	41	49·4	42·9	46·2	+ 3·2	29	0	3	0·37	−0·65	*	*	*	*
	Markree Castle	53	32	51·3	38·9	45·1	+ 4·9	35	9	6	0·32	−0·36	24·6	+ 9·4	36	+13
	Armagh	54	38	51·1	40·1	45·6	+ 5·6	23	5	5	0·18	−0·39	15·0	+ 0·2	22	0
	Donaghadee	54	34	50·7	38·9	44·8	+ 3·9	33	9	2	0·13	−0·40	*	*	*	*
	Edgeworthstown	58	31	51·4	37·3	44·4	+ 4·7	37	13	4	0·46	−0·14	*	*	*	*
10. IRELAND, S.	Dublin	60	37	52·6	42·4	47·5	+ 5·3	39	0	3	0·27	−0·22	20·1	+ 2·7	29	+ 4
	Parsonstown	57	33	52·3	38·1	45·2	+ 4·2	39	11	4	0·26	−0·25	20·6	+ 4·5	30	+ 5
	Kilkenny	56	28	51·4	37·3	44·4	+ 2·6	37	13	2	0·23	−0·38	*	*	*	*
	Roche's Point	53	37	50·4	41·9	46·2	+ 2·4	30	0	4	0·83	−0·17	*	*	*	*
	Valencia	54	41	51·9	44·3	48·1	+ 3·1	43	0	4	0·71	−0·49	9·5	− 8·0	14	−12
	Killarney	56	35	53·2	42·7	48·0	+ 4·3	42	0	3	0·97	?	*	*	*	*
	Foynes	?	35	?	41·8	?	?	?	?	3	0·35	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	39	51·0	42·9	47·0	+ 1·2	35	0	2	0·25	−0·39	22·7	?	32	?
	Jersey	52	32	49·0	40·6	44·8	+ 1·8	25	4	3	0·41	−0·17	28·9	+ 6·8	41	+ 8

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

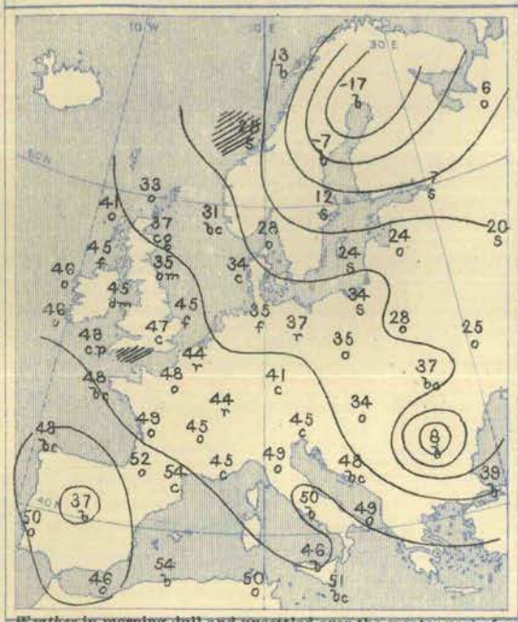
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

‡ Errata.—The corresponding values in last week's report should read "0·42" and "−1·38."

Sunday, 14th February.

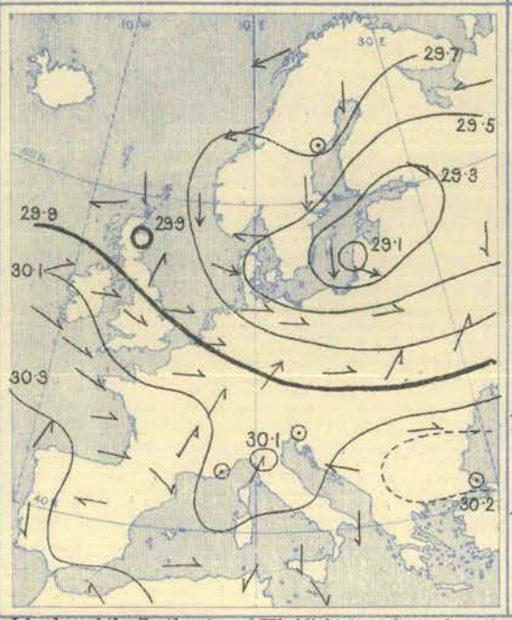
Temperature and Weather. 8 a.m.



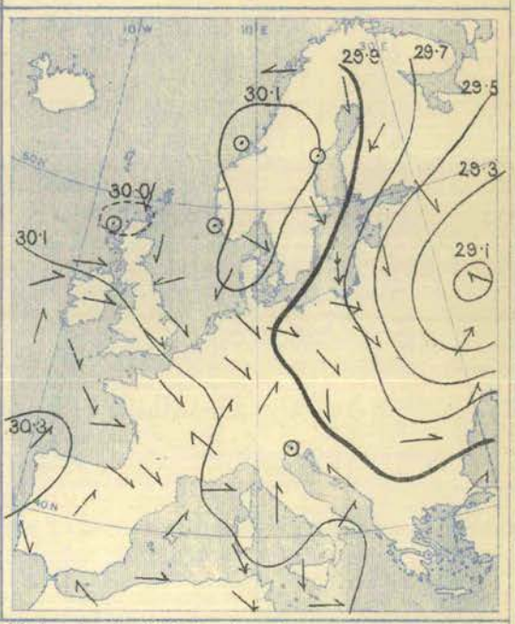
Weather in morning dull and unsettled over the greater part of our Islands and the Continent, with fog or mist at many of our own and the German stations, and with rain in several parts of Scotland and France, as well as at Brussels and Berlin. Snow falling over the Baltic and south of Sweden, and also at Christiansund, St. Petersburg, and Moscow. Fine and bright over the northern parts of Scandinavia, as well as in Spain and Sicily. Rain falling later over the north and east of our Islands, and the central parts of the Continent, but amounts mostly slight.

Temperature risen over Great Britain, the Netherlands, and Germany; fallen or changed irregularly elsewhere. Morning readings highest, 55° at Barcelona, 54° at Algiers, 53° at La Calle, and 52° at Biarritz, Bilbao, and Sfax; above 45° in many parts of Ireland and England. Lowest, −17° Fahr. at Haparanda, −12° at Uleaborg, −7° at Hernösand, and +6° at Archangel; considerably below the freezing point over northern and eastern Europe generally. Rising during day to 50° and upwards at several of our own western and southern stations; exceeding 55° in Italy, and exceeding 60° in many parts of the Spanish Peninsula.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

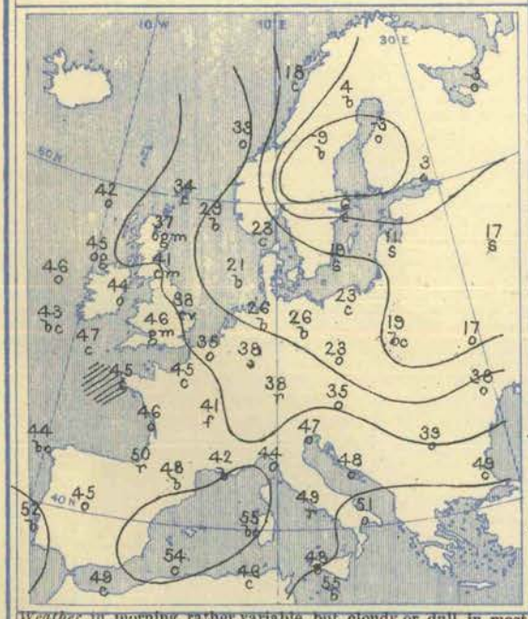


Wind light to moderate from the Westward or North-Westward over the greater part of Ireland England, France, Germany, and the Netherlands, and from the South-Westward in the south of Russia; fresh to strong from the Northward or North-Eastward in Scandinavia; light from the Eastward in the north of Scotland. Calm in Austria; variable in Italy; light from between East and North over the Spanish Peninsula. Subsequently falling calm in the west of Norway, but Northerly or North-Westerly gales setting in at some of the Baltic stations.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the western parts of the Spanish Peninsula, and also over Morocco; 30·2 ins. and upwards in another system over south-eastern Europe. Lowest, 29·1 ins. and less in a well-marked depression over the Baltic Provinces. Depression subsequently moving eastwards to central Russia; new high pressure system forming over Scandinavia and Denmark.

Monday, 15th February.

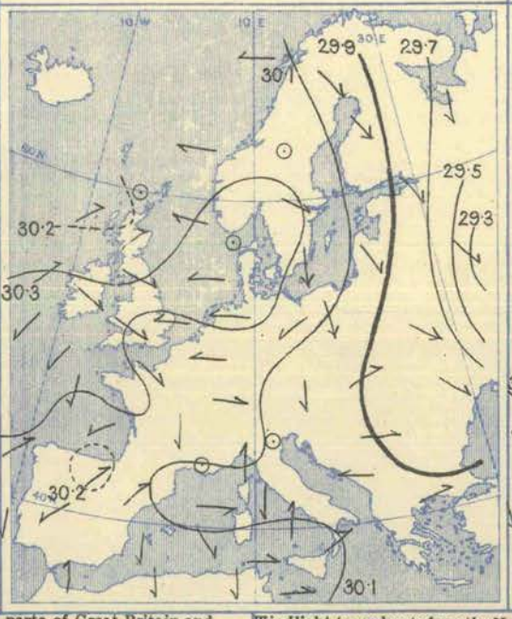
Temperature and Weather. 8 a.m.



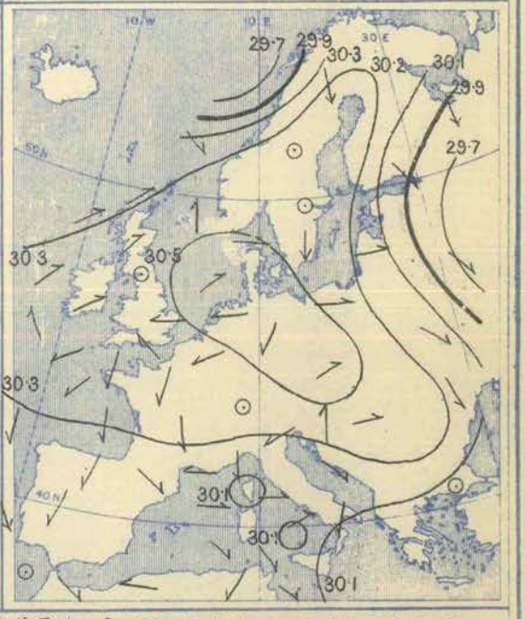
Weather in morning rather variable, but cloudy or dull in most parts of Great Britain and the Continent, with fog or mist in places, and with rain at Munich, Biarritz, Bilbao, and Naples; snow falling at Wisby, Riga and Moscow. Fine in Ireland, and also over Denmark and the northern parts of Germany and Sweden. Slight rain falling during day in several parts of Great Britain, and large quantities in southern Italy. Lunar halo seen in the north of Scotland.

Temperature fallen in most places. Morning readings highest, 55° at Palma, Cagliari, and Malta, and 54° at Barcelona, Algiers, and Sfax; above 45° at some of our own southern stations. Lowest, −9° Fahr. at Hernösand, −6° at Karlstadt, −4° at Hangö, and −3° at Kuopio; below the freezing point over northern and eastern Europe generally, and very little above it in the north of Scotland. Rising during day to between 45° and 50° in most parts of the United Kingdom, but scarcely touching 40° on the east coast of England. Exceeding 55° in the south of France; exceeding 60° over Spain and southern Italy, and reaching 68° at Bilbao.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



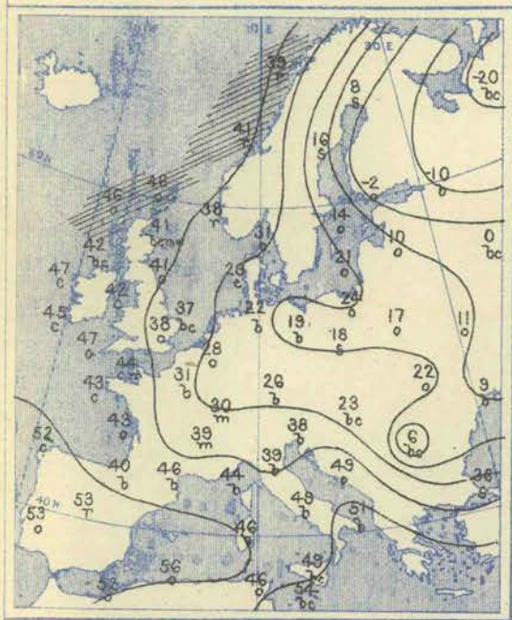
Wind light to moderate from the North-Eastward over Denmark, Germany, and the Netherlands, and from the Northward or North-Westward over the south of our Islands and the northern parts of France. South-Westerly on our own extreme north-west coasts; calm or variable in Scotland, Easterly in the west of Norway. Northerly over northern Russia, but North-Westerly or Westerly in the south of that country; variable over Italy and the south of France, North-Easterly in Spain; South-Westerly breezes setting in later over Scotland and the west of Norway; wind shifting to the North-Eastward or Eastward in the south of England.

Barometer highest, 30·3 ins. and upwards in an anticyclone of somewhat irregular form covering Ireland, the west and north of England, the North Sea, Denmark, North Germany, and the south of Scandinavia. Lowest, 29·2 ins. and less in a depression over central Russia. New disturbance beginning to approach Norwegian coasts in evening; barometer falling quickly in Finmark.

Tuesday, 16th February.

Temperature and Weather.

8 a.m.

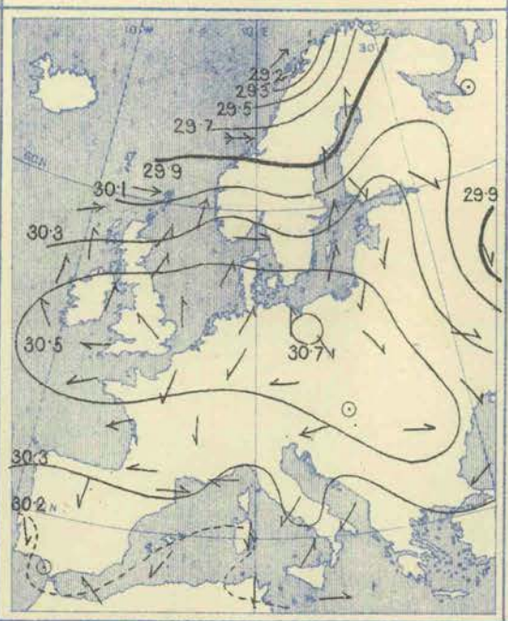


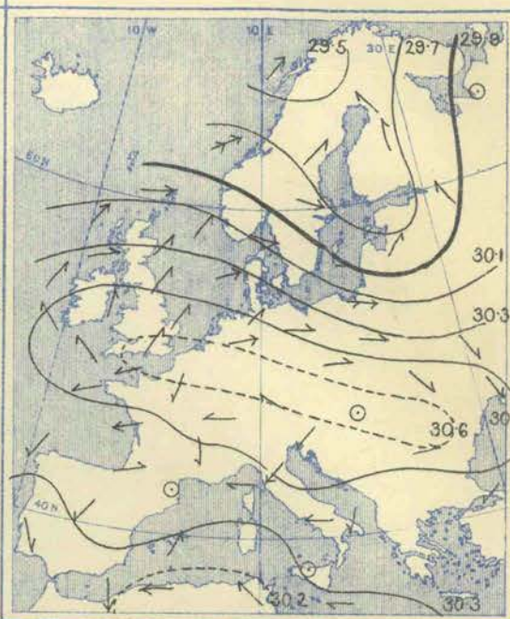
Weather in morning cloudy or dull over western and northern Europe generally, with rain in the west of Norway, and snow in Sweden. Fine in isolated parts of the United Kingdom, as well as over eastern, central, and southern Europe generally, but cloudy over the Spanish Peninsula, with rain at Madrid. Sky clearing later in many parts of Great Britain; lunar halos seen at several of the English and Irish stations. Snow falling over nearly the whole of Scandinavia and northern Russia.

Temperature risen over Scandinavia, Denmark, and the north of our Islands; fallen elsewhere—rapidly in Russia. Morning readings highest, 56° at Oran and Algiers, and 54° at Oporto and Malta; above 50° at several of the Mediterranean and Spanish coast stations. Lowest, −20° Fahr. at Archangel, −10° at St. Petersburg, and −5° at Helsingfors; considerably below the freezing point over the whole of Sweden, Russia, and central Europe. Rising during day to between 45° and 50° in most parts of our Islands; exceeding 60° over Spain and southern Italy, and reaching 64° at Cagliari. Frost occurring over England at night.

Barometer and Wind.

8 a.m. | 6 p.m.





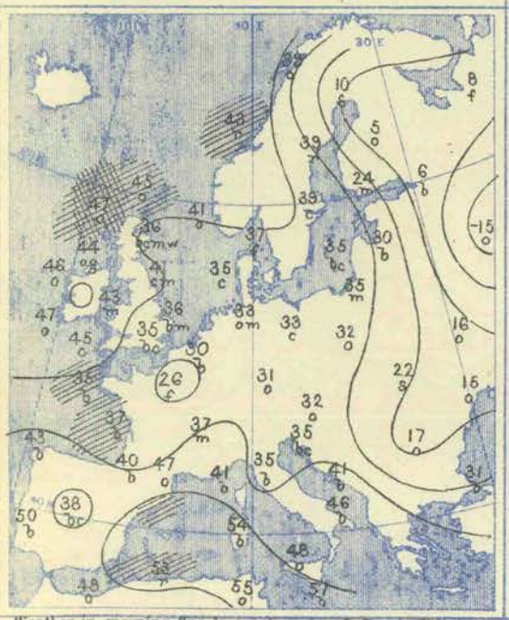
Wind South-Westerly (South to West) over all the more northern parts of our Islands and the Continent; strong in force in the Hebrides, and blowing a gale on the Norwegian coasts. Light from the North-Westward over Russia, Austria, and eastern Germany; North-Easterly or Easterly over France, Spain, Italy, and the south of England. Subsequently shifting to the South-Westward in the last mentioned region; Westerly gales springing up at some of the Baltic stations.

Barometer highest, 30·70 ins. at Berlin; 30·5 ins. and upwards in an anticyclone covering the whole of central Europe, and extending westwards over England, Ireland, and the north of France. Lowest, 29·2 ins. and less in a deep depression off the north-west of Norway; 29·9 ins. and less in another disturbance over central Russia. No important change occurring over western Europe during day; Russian depression moving away to the eastward.

Wednesday, 17th February.

Temperature and Weather.

8 a.m.

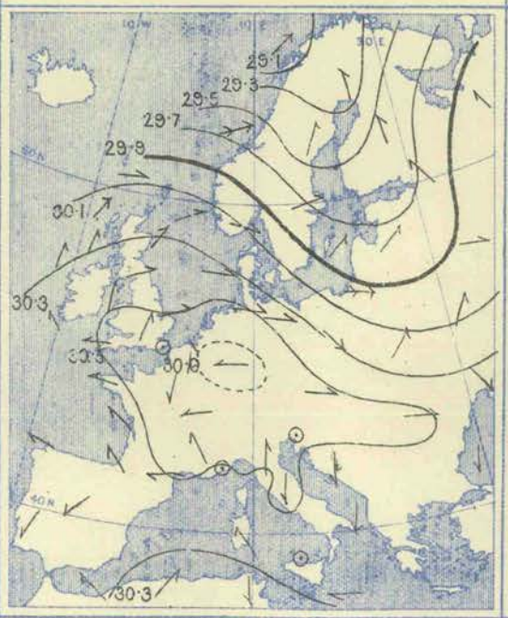


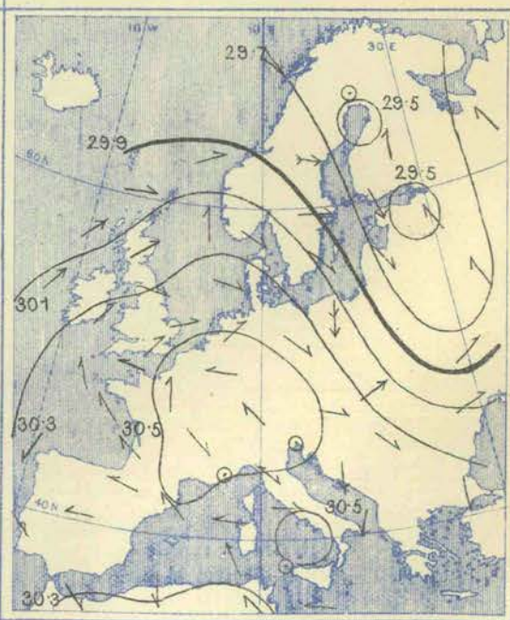
Weather in morning fine in most parts of Great Britain, the Netherlands, and southern Europe, but with fog or mist in places. Dull in Ireland and the west and north of Scotland, as well as over northern, eastern, and central Europe generally. Rain falling at Christiansund and Hernösand, and snow over Lapland and Finland, as well as at Cracow and Lemberg. Rain falling later in Ireland and the Hebrides, and snow at many of the Russian stations.

Temperature fallen over Great Britain, France and southern Europe, risen in most other localities, quickly over Sweden, northern Russia and the Baltic. Morning readings highest, 57° at Malta and 55° at Palma, Algiers, La Calle, and Tunis; above 50° at many of the Mediterranean and Spanish coast stations. Lowest, −15° Fahr. at Moscow, −4° at Kharkov, +5° at Kuopio and 6° at St. Petersburg; below the freezing point over central Europe, and just touching it at one or two of the English stations. Rising during day to 50° or slightly above it in several parts of the United Kingdom; exceeding 55° over southern Europe generally, and reaching 66° at Palermo.

Barometer and Wind.

8 a.m. | 6 p.m.



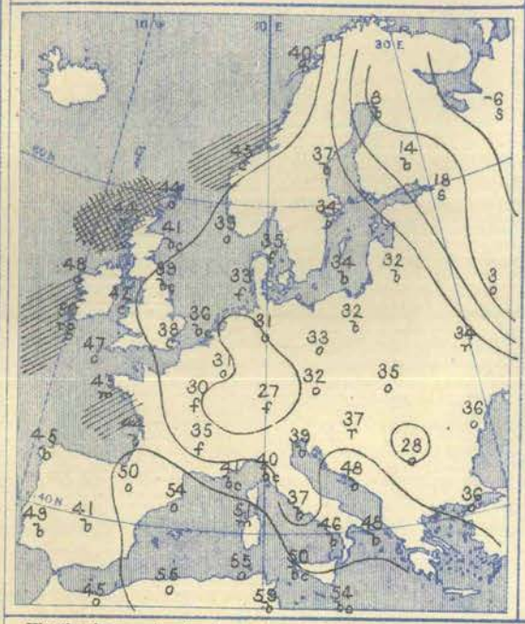


Wind light to moderate from the South-Westward over the greater parts of our Islands, and also in Scandinavia, but blowing a strong gale at Christiansund. Moderate from the Westward or North-Westward over Denmark, Germany, and Austria; South-Westerly in the south of Russia, but South-Easterly in the north of that country. Easterly (South-East to North-East) over Spain, France, and the English Channel; variable in Italy. Subsequently freshening from the South-Westward on our extreme north-west coasts; no important change occurring elsewhere.

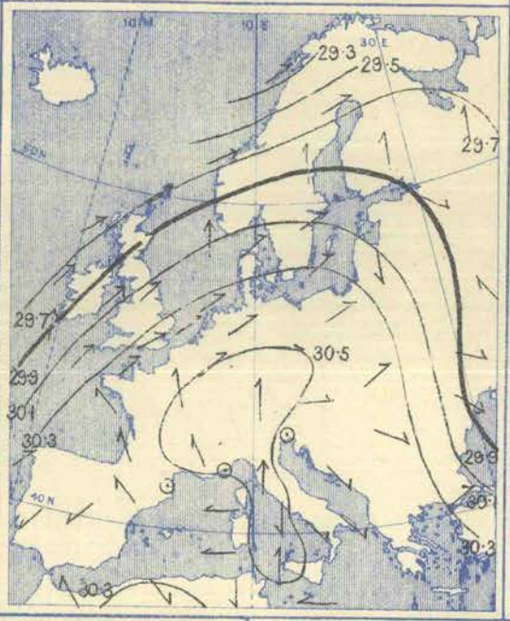
Barometer highest, 30·6 ins. and upwards over Belgium and western Germany; 30·2 ins. and upwards in an anticyclone covering our Islands and all the more central and southern parts of the Continent. Lowest, 29·1 ins. and less in a depression lying off the north-west of Norway; secondary disturbances reported over Sweden and the Gulf of Bothnia. Anticyclone giving way somewhat later, and new depression beginning to approach our extreme western coasts. Scandinavian disturbances moving steadily eastwards.

Thursday, 18th February.

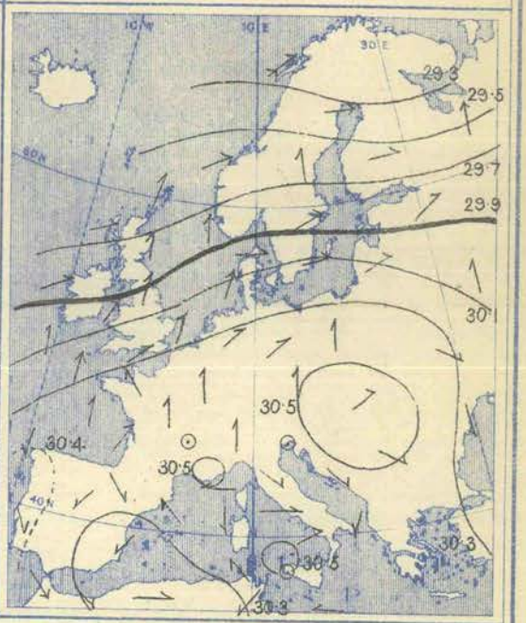
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in most parts of Great Britain, as well as over Finland, Sweden, the Baltic, and the greater part of southern Europe. Rainy in the south of Ireland, as well as in the Hebrides and at Bodö; snow reported at Haparanda and St. Petersburg. Foggy in many parts of Denmark, Germany, and France; dull over Austria and the south of Russia, with rain at Buda-Pesth and Kiev. Rain falling later in many parts of Ireland and England, as well as in the north of Scotland and the west of Norway—amounts large at some of our south-western stations. Heavy quantities falling also at several of the Spanish stations.

Temperature risen quickly in Bothnia, and to a smaller extent in Austria, and also over the United Kingdom and the west of France; fallen or changed irregularly elsewhere. Morning readings highest, 59° at Sfax, and 55° at Cagliari, Algiers, and La Calle; above 50° at several of the Mediterranean stations, and just touching it at Valencia (Ireland). Lowest, −6° Fahr. at Archangel, +3° at Moscow, 8° at Uleaborg, and 14° at Kuopio. Rising during day to 50° and upwards in many parts of our Islands, and to 55° in London; exceeding 60° in several parts of southern Europe, and reaching 66° at Toulouse.

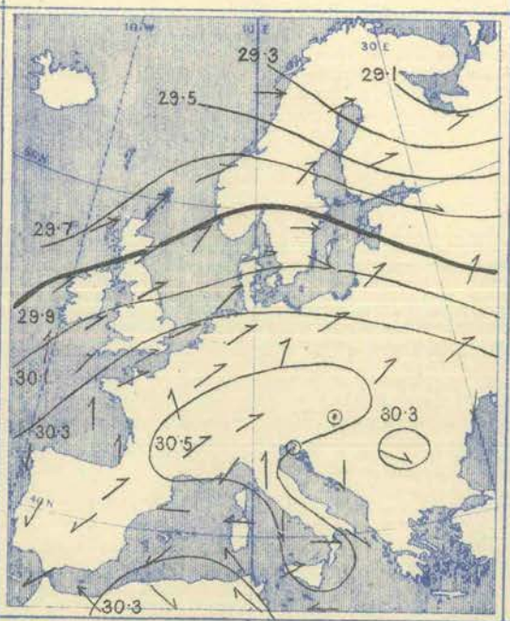
Wind Southerly or South-Westerly over north-western Europe generally; light to fresh in force as a rule, but very strong in Ireland and the Hebrides. North-Westerly over the western parts of Russia, and also in Italy; Westerly in Austria; calm or variable in the south of France; North-Easterly over the greater part of the Spanish Peninsula. Subsequently increasing to a gale on some of the more exposed parts of our north-western coasts, and also in the north-west of Norway; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over Italy, Switzerland, south Germany, and the east of France; 30·3 ins. and upwards in an anticyclone covering the whole of central and southern Europe. Lowest, 29·3 ins. and less in a depression off the north-west of Norway; 29·7 ins. and less in another disturbance lying to the westward of our Islands. Latter system moving northwards later, and barometer rising again on our western coasts.

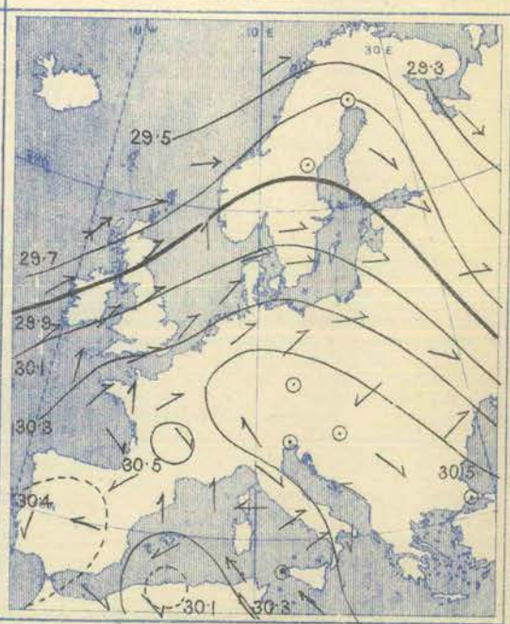
Friday, 19th February.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with fog or mist in many places, with rain at several of our own western and southern stations, and with snow at Archangel. Fine over Italy and the extreme southern parts of France and Spain, as well as at some of the German and Swedish stations. Rain falling later over nearly the whole of England, the south of Ireland, and the north of France, as well as in the north of Scotland and the west of Norway.

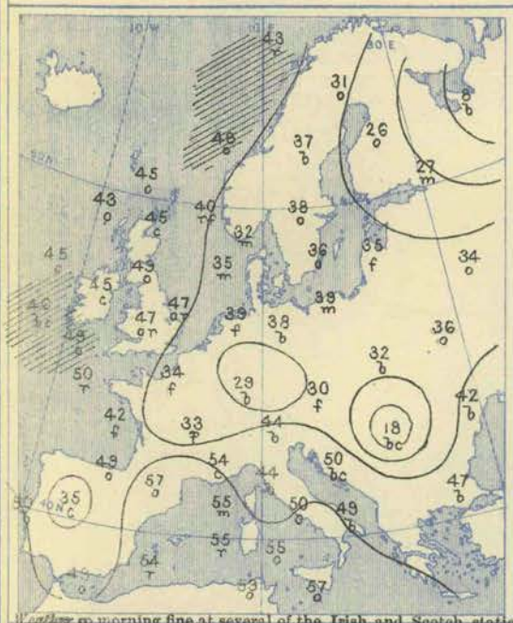
Temperature risen over all but the south-eastern and central parts of Europe—quickly over northern Russia. Morning readings highest, 59° at La Calle and Sfax, and 55° at Cagliari and Algiers; above 50° at most of the Mediterranean stations, as well as in some parts of Ireland and the north-west of England. Lowest, 15° at Hermanstadt, 22° at Kharkov, and 27° at Buda-Pesth; slightly below the freezing point over Germany and central France. Rising during day to 50° and upwards over the United Kingdom generally, and to 55° and upwards in Scotland and central Ireland, as well as in Italy and the south of France; exceeding 60° over the Spanish Peninsula.

Wind light to fresh from the South-Westward over our Islands and all the more northern and central parts of the Continent; calm in Austria, variable in Italy; North-Easterly over the Spanish Peninsula and the extreme south of France. Subsequently increasing to a gale from the South-Westward in the Hebrides; shifting to the Northward in the south-west of France.

Barometer highest, 30·5 ins. and upwards over Italy, Switzerland, south Germany, and the eastern and central parts of France; 30·3 ins. and upwards in an anticyclone embracing the entire southern half of Europe. Lowest, 29·1 ins. and less in a depression over the White Sea. New disturbance subsequently skirting our extreme northern coasts, and passing on to the north-west of Norway.

Saturday, 20th February.

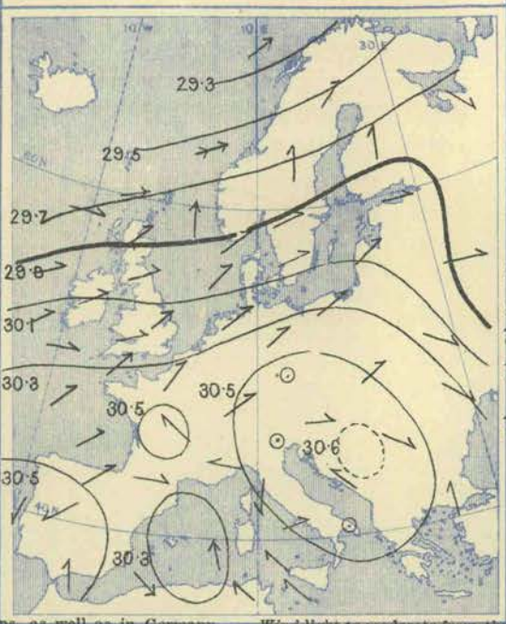
Temperature and Weather. 8 a.m.



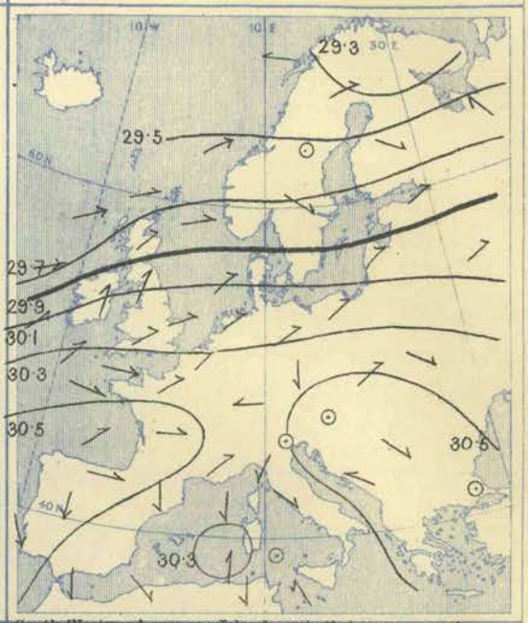
Weather in morning fine at several of the Irish and Scotch stations, as well as in Germany, Austria, and Spain. Cloudy or dull in most other parts of Europe, with fog or mist over the more central countries, and with rain over the south-eastern parts of England, the north of France, and the west of Norway. Rain falling later over the whole of our Islands and the neighbouring parts of the Continent, but amount mostly slight.

Temperature fallen in the west and north of our Islands, and also over northern Russia; risen or changed irregularly elsewhere. Morning readings highest, 59° at Sfax, and 57° at Barcelona, Malta, and Tunis; above 50° at the Mediterranean and Spanish coast stations generally, and very little below it in many parts of England. Lowest, (1) 8° at Archangel, 22° at St. Petersburg, and 26° at Kuopio; (2) 18° at Hermanstadt, 27° at Wiesbaden and Cracow, and 28° at Vienna. Rising during day to 50° and upwards in most parts of the United Kingdom, to 55° or more at some of the inland English stations, and to 57° at Loughborough. Exceeding 55° also in the south of France, and exceeding 60° over southern Italy and the Spanish Peninsula.

Barometer and Wind. 8 a.m.



6 p.m.



Wind light to moderate from the South-Westward over our Islands and all the more northern and central parts of the Continent. Light from the North-Westward in the south of Russia; calm in Austria; variable in Italy; Easterly or North-Easterly over the Spanish Peninsula and the extreme south of France. Increasing at night to a strong gale from the South-Westward or Westward in the west of Scotland and the northern parts of Ireland and England.

Barometer highest, 30·6 ins. and upwards over the south of Austria; 30·3 ins. and upwards in an anticyclone lying over the entire southern half of Europe. Lowest, 29·3 ins. and less in a depression lying off the north-west of Norway; small and very shallow secondary disturbance moving eastwards across England. New and deeper secondary advancing later to our extreme north-west coasts, and moving rapidly at night in an east-south-easterly direction across our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Shortly after the commencement of this week a large anticyclone was gradually formed over nearly the whole of Europe, the wind being light and rather variable in direction, and the weather cloudy, with fog or mist in places. After the 15th, however, large depressions began to advance over Scandinavia from the westward, and for the remainder of the week the influence of the anticyclone was confined to the more central and southern parts of the Continent, where the weather was for the most part fine and dry. Over all the more northern countries, including the greater part of our own Islands, South-Westerly winds of increasing strength set in, with very changeable weather, and with snow in Scandinavia and northern Russia. On several occasions the large disturbances in the far north were accompanied by small secondary systems which travelled across the United Kingdom, the most important of these being observed quite at the close of the week, when the rapid passage of a rather well-marked depression across the northern parts of Ireland and England was attended by strong Westerly gales on many parts of our north-west and north-east coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 38.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean fo the Week.
EDINBURGH	18·4	+ 4·9	27	+ 7	SOUTHPORT	17·0	?	25	?
OSWALDKIRK (Yorkshire)	10·7	- 4·0	16	- 6	MANCHESTER (Oldham Road)	7·5*	?	11*	?
WORKSOP	12·7	- 1·5	18	- 3	COLWYN BAY	24·4	?	35	?
THURCASTON (Leicestershire)	13·1	- 1·0	19	- 2	NEWQUAY	26·5	+ 7·5	38	+10
MARGATE	22·4	+ 5·9	32	+ 8	TORQUAY	18·7*	+ 1·5	27*	+ 2
WESTBOURNE (Sussex)	20·8*	+ 2·3	30*	+ 3	ARLEY COTTAGE (County Cavan)				
BRIGHTON	20·1	+ 2·1	29	+ 2	GUERNSEY	34·5*	+13·5	49*	+18
EASTBOURNE	21·0	+ 3·6	30	+ 5					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, L.t.d., Lith., 63, Carter Lane

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV. No. 8.] *Third Series.* WEEK ENDING SATURDAY, FEBRUARY 27TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.]

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 44.)	Observed during the Week. Highest.	Observed during the Week. Lowest.	Observed during the Week. Averages of Daily Maxima.	Observed during the Week. Averages of Daily Minima.	Observed during the Week. Averages of Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Accumulated. From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°		°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	32	49·1	39·0	44·1	6 above	27	+20	8	−27	50	− 2	356	+30
	1. SCOTLAND, EAST	64	31	52·4	39·5	46·0	8 above	39	+29	7	−34	65	+ 1	382	+33
	2. ENGLAND, N.E.	60	35	52·6	42·9	47·8	9 above	41	+30	0	−33	71	+12	294	−16
	3. ENGLAND, EAST	58	36	52·4	41·7	47·1	8 above	37	+22	1	−36	73	+ 2	314	−41
	4. MIDLAND COUNTIES	58	31	52·2	42·7	47·5	8 above	39	+26	0	−37	82	+ 3	318	−35
	5. ENGLAND, SOUTH	58	39	51·5	43·1	47·4	7 above	38	+22	0	−29	93	+ 2	218	−67
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	34	49·9	42·1	46·0	6 above	28	+18	0	−28	59	−18	266	+18
	7. ENGLAND, N.W.	55	34	50·1	43·4	46·8	7 above	34	+23	0	−28	67	− 1	241	−18
	8. ENGLAND, S.W.	57	34	50·4	44·2	47·3	6 above	37	+19	0	−23	121	+ 1	152	−58
	9. IRELAND, NORTH	57	31	51·5	41·8	46·7	6 above	34	+20	1	−23	84	−19	223	+ 7
	10. IRELAND, SOUTH	59	32	53·7	44·6	49·2	6 above	50	+28	0	−17	162	+ 6	156	−11
	—CHANNEL ISLANDS	54	42	51·6	45·8	48·8	4 above	48	+25	0	−10	206	+36	60	−36

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 44.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	Rainfall. From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Bright Sunshine. From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	23	12 more	36	− 5	5·8	− 3·7	8	− 7	12	− 9	69	+ 4	16	+ 1
	1. SCOTLAND, EAST	5	6	1 more	29	− 2	2·8	− 2·2	22	+ 4	31	+ 4	84	− 7	19	− 1
	2. ENGLAND, N.E.	2	1	3 less	35	+ 6	3·7	− 0·2	22	+ 5	31	+ 7	85	− 5	18	− 1
	3 ENGLAND, EAST	1	less than ½	3 less	37	+ 7	4·3	+ 0·8	26	+ 7	35	+ 8	81	− 26	17	− 5
	4. MIDLAND COUNTIES	2	1	3 less	32	+ 3	4·6	+ 0·4	18	0	25	0	78	− 22	16	− 4
	5. ENGLAND, SOUTH	1	less than ½	4 less	31	+ 3	5·0	+ 0·3	19	0	26	0	84	− 23	17	− 5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	16	7 more	30	− 6	5·1	− 4·2	9	− 7	13	−10	85	+ 1	19	+ 1
	7. ENGLAND, N.W.	4	5	0 (average)	35	+ 3	4·1	− 1·0	14	− 7	20	−11	65	− 22	15	− 4
	8. ENGLAND, S.W.	4	2	5 less	36	+ 3	7·1	+ 0·5	7	−14	10	−20	99	− 20	20	− 5
	9. IRELAND, NORTH	6	10	4 more	36	− 1	4·4	− 1·7	14	− 3	20	− 4	99	+ 2	21	0
	10. IRELAND, SOUTH	4	5	2 less	33	− 2	5·5	− 1·4	13	− 6	18	− 9	113	− 2	23	− 1
	—CHANNEL ISLANDS	3	1	5 less	42	+ 6	6·2	+ 0·5	13	− 9	18	−12	105	− 38	19	− 8

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, and the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was generally fair and dry in all the more southern parts of the Kingdom, while in the extreme north and northwest rain fell on almost every day, the falls being very large in the north of Scotland.

Temperature was much above the mean, the excess ranging from 4° in the Channel Islands to 8° in the Midland counties, England E. and Scotland. E., and to 9° in England N.E. The highest of the maxima, which were recorded either on the 22nd or 26th, ranged from 64° in Scotland E. (at Aberdeen) and 60° in England N.E. to 55° in Scotland W. and England N.W., and to 54° in the Channel Islands. The lowest of the minima were registered on the 27th, when they varied from 31° in Scotland E., the Midland counties and Ireland N., to 39° in England S., and to 42° in the Channel Islands.

Rainfall exceeded the mean over Scotland and the north of Ireland, the excess being large in Scotland N. and W. In England N.W. the fall just equalled the normal, while in all other districts there was a deficit. At some of the south-eastern and southern stations the week was quite rainless.

Bright Sunshine was deficient in most parts of the Kingdom, but exceeded the normal in the eastern and north-eastern districts. The percentage of the possible duration ranged from 35 in England E., and 31 in England N.E. and Scotland E., to 13 in Scotland W., 12 in Scotland N., and 10 in England S.W.

Barometer and Wind.—During the earlier days of the week the distribution of pressure was mainly anticyclonic, with light or moderate breezes from the Westward. After Tuesday, however, depressions skirted our western and northern coasts, and these systems, spreading more and more over the Kingdom, caused fresh or strong Southerly to South-Westerly winds in almost all districts, and gales on some parts of our western and north-western coasts. By the end of the week the anticyclone had again become re-established over all the more southern parts of the Kingdom, and the wind had veered to the westward very generally.

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II.—DATA from which the SUMMARY on page 43 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	34	46·7	38·9	42·8	+ 4·8	19	9	7	0·76	+0·04	*	*	*	*
	Stornoway	52	32	48·6	37·9	43·3	+ 4·3	26	11	6	1·43	+0·53	11·8	- 5·2	17	- 9
	Wick	57	34	50·6	39·7	45·2	+ 7·0	32	6	4	0·29	-0·26	*	*	*	*
	Lairg Ⓢ	55	33	50·4	36·9	43·7	+ 7·0	33	14	6	1·03	+0·31	*	*	*	*
	Glencarron Ⓢ	52	32	47·7	38·4	43·1	+ 6·1	23	10	7	4·05	+2·57	*	*	*	*
	Fort Augustus Ⓢ	55	35	50·4	39·6	45·0	+ 6·3	31	7	7	3·24	+2·29	9·9	- 1·3	14	- 2
	Fort William Ⓢ	55	37	49·6	41·8	45·7	+ 6·2	27	1	7	4·99	+3·19	2·9	-12·3	4	-18
1. SCOTLAND, E.	Nairn	58	32	54·0	38·4	46·2	+ 7·7	45	10	3	0·49	+0·02	*	*	*	*
	Aberdeen	64	36	55·1	40·4	47·8	+ 9·3	47	4	2	0·03	-0·49	35·3	+15·3	50	+21
	Braemar Ⓢ	54	31	47·4	37·5	42·5	+ 7·5	22	13	5	0·89	+0·20	14·7†	- 4·5†	21†	- 8†
	Ochtertyre Ⓢ	58	34	52·1	39·9	46·0	+ 8·2	37	6	5	1·47	+0·77	*	*	*	*
	Leith	58	38	53·9	41·6	47·8	+ 7·8	42	1	5	0·39	+0·09	*	*	*	*
	Marchmont Ⓢ	55	31	51·9	39·1	45·5	+ 8·0	37	8	5	0·59	+0·07	17·8	+ 2·6	25	+ 3
2. ENGLAND, N.E.	Alnwick Castle	57	36	53·3	44·0	48·7	+10·1	47	9	2	0·18	-0·30	*	*	*	*
	Durham	58	35	52·4	41·3	46·9	+ 8·7	37	2	3	0·07	-0·33	26·7	+ 8·8	38	+12
	Shields	58	38	54·1	42·4	48·3	+ 8·9	44	0	2	0·03	-0·30	*	*	*	*
	Scarborough Ⓜ	60	37	52·9	43·2	48·1	+ 8·7	43	0	1	0·05	-0·32	*	*	*	*
	York	56	37	53·0	43·9	48·5	+ 9·1	46	0	2	0·04	-0·31	19·1	+ 2·8	27	+ 4
	Spurn Head	55	40	49·9	42·4	46·2	+ 7·1	29	0	2	0·04	-0·23	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	56	37	52·2	41·6	46·9	+ 8·5	36	1	2	0·04	- 0·34	23·3	+ 4·2	32	+ 5
	Yarmouth	56	40	50·7	41·9	46·3	+ 7·9	31	0	1	0·03	- 0·32	*	*	*	*
	Geldeston	58	37	53·3	41·8	47·6	+ 8·4	40	1	1	0·02	- 0·28	28·8	+ 9·0	39	+11
	Cambridge	58	36	53·6	41·1	47·4	+ 7·9	42	3	0	—	- 0·30	27·2	+ 8·3	37	+10
	Rothamsted	57	38	52·2	42·2	47·2	+ 8·4	36	0	0	—	- 0·40	23·3	+ 5·0	32	+ 5
4. MIDLAND COUNTIES	Harrogate Ⓜ	56	36	50·9	43·1	47·0	+ 8·2	35*	0	2	0·10	?	18·4	?	26	?
	Bawtry (Hesley Hall)	57	38	53·6	43·3	48·5	+ 9·3	46	0	2	0·12	- 0·18	*	*	*	*
	Loughborough	56	37	52·9	42·9	47·9	+ 8·2	41	0	2	0·03	- 0·30	*	*	*	*
	Stamford (Duddington)	55	37	52·1	42·0	47·1	+ 7·7	36	0	0	—	- 0·30	*	*	*	*
	Cheadle Ⓜ	55	35	50·4	42·0	46·2	+ 8·2	29	0	4	0·12	- 0·37	*	*	*	*
	Shirley (near Solihull)	56	32	51·3	41·8	46·6	+ 6·9	33	1	1	0·01	?	*	*	*	*
	Churchstoke Ⓜ	56	31	52·2	42·9	47·6	+ 8·6	39	0	2	0·04	- 0·45	21·7	+ 3·8	30	+ 5
	Hereford Ⓜ	58	36	53·8	42·5	48·2	+ 8·2	43	0	0	—	- 0·38	*	*	*	*
	Cirencester	55	39	51·6	42·9	47·3	+ 8·5	37	0	2	0·09	- 0·39	19·5	- 0·2	27	- 1
	Oxford	57	40	52·9	43·6	48·3	+ 8·3	44	0	0	—	- 0·37	17·2	- 0·8	24	- 1
5. ENGLAND, S.	London	58	44	53·0	44·9	49·0	+ 8·2	49	0	0	—	- 0·32	15·1†	+ 4·3†	21†	+ 6†
	North Foreland	57	41	51·3	43·1	47·2	+ 7·3	36	0	1	0·04	?	*	*	*	*
	Dungeness	57	39	51·3	41·9	46·6	+ 6·8	33	0	2	0·02	- 0·31	*	*	*	*
	Hastings (St. Leonards)	56	39	51·5	41·2	46·4	+ 6·2	34	2	2	0·09	- 0·34	18·4	- 3·8	25	- 6
	Southampton	57	43	53·4	44·5	49·0	+ 7·6	49	0	0	—	- 0·48	14·4	- 6·1	20	- 9
	Hurst Castle	53	42	50·1	43·7	46·9	+ 5·9	34	0	0	—	- 0·40	*	*	*	*
	Stowell Ⓜ	54	40	50·2	42·7	46·5	+ 6·8	32	0	2	0·07	- 0·51	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	38	51·8	42·0	46·9	+ 6·7	34	0	7	2·17	+0·69	*	*	*	*
	Glasgow	53	38	49·2	41·8	45·5	+ 6·3	25	1	6	1·72	+1·04	7·9	- 4·3	11	- 7
	Ardrossan	52	39	48·6	42·9	45·8	+ 5·4	27	0	6	1·22	+0·68	*	*	*	*
	Glenlee Ⓢ	54	34	50·4	41·6	46·0	+ 7·1	30	1	6	1·85	+0·90	*	*	*	*
	Douglas (Isle of Man)	54	36	49·6	42·4	46·0	+ 5·3	28	0	6	0·79	+0·16	9·9	- 9·3	14	-13
7. ENGLAND, N.W.	Stonyhurst	53	35	47·9	42·4	45·2	+ 6·3	22	0	5	1·28	+0·52	10·2	- 6·0	14	- 9
	Blackpool Ⓜ	55	40	49·4	42·8	46·1	+ 6·9	29	0	4	0·43	+0·02	10·3	- 6·4	14	-10
	Manchester (Prestwich)	53	34	51·2	43·3	47·3	+ 8·3	37	0	6	0·44	-0·03	8·4	?	12	?
	Liverpool Obsy. (Bidston)	55	40	51·3	44·4	47·9	+ 7·1	41	0	3	0·08	-0·24	*	*	*	*
	Llandudno Ⓜ	55	38	51·8	44·4	48·1	+ 6·3	43	0	5	0·43	+0·03	*	*	*	*
	Holyhead	51	39	49·0	43·0	46·0	+ 4·2	28	0	3	0·15	-0·35	*	*	*	*
8. ENGLAND, S.W.	Llandovery	54	34	51·1	42·1	46·6	+ 6·5	32	0	7	0·50	-0·35	*	*	*	*
	Pembroke	49	42	47·7	44·0	45·9	+ 3·7	27	0	4	0·14	-0·40	4·0	-17·5	5	-25
	Clifton	54	39	51·5	44·0	47·8	+ 6·7	41	0	4	0·13	-0·37	*	*	*	*
	Arlington (N. Devon)	51	37	48·9*	42·3	45·6	+ 4·6	25	0	4	0·25	-0·72	*	*	*	*
	Cullompton Ⓜ	57	42	53·0	45·0	49·0	+ 7·2	49	0	2	0·05	-0·67	11·8	- 7·2	16	-12
	Falmouth	54	45	51·4	46·2	48·8	+ 5·1	48	0	4	0·08	-0·84	3·1	-19·0	4	-27
	Plymouth	52	44	50·7	46·0	48·4	+ 6·0	45	0	3	0·12	-0·46	4·7	-16·8	6	-24
	Prawle Point	51	43	49·0	43·9	46·5	+ 4·8	32	0	3	0·07	-0·35	*	*	*	*
9. IRELAND, N.	Malin Head	54	36	49·3	42·3	45·8	+ 3·8	27	0	6	0·94	?	*	*	*	*
	Londonderry	55	36	51·4	41·2	46·3	+ 5·1	33	2	6	0·98	+0·46	*	*	*	*
	Edenfel (Omagh)	54	32	51·1	42·3	46·7	+ 7·5	33	0	7	1·27	+0·77	*	*	*	*
	Belmullet	53	39	51·0	44·7	47·9	+ 4·9	41	0	6	1·38	+0·43	*	*	*	*
	Markree Castle	57	33	52·8	41·4	47·1	+ 6·9	38	2	7	1·48	+0·81	14·7	- 2·4	20	- 5
	Armagh	55	34	52·0	41·9	47·0	+ 7·0	25	0	6	0·70	+0·12	13·9	- 2·8	19	- 5
	Donaghadee	57	34	52·9	41·9	47·4	+ 6·4	38	0	4	0·51	+0·06	*	*	*	*
	Edgeworthstown	55	31	51·3	38·7	45·0	+ 5·0	35	9	5	0·43	-0·13	*	*	*	*
10. IRELAND, S.	Dublin	59	38	54·3	45·1	49·7	+ 7·7	54	0	2	0·12	-0·33	16·5	- 2·5	23	- 4
	Parsonstown	57	33	53·7	42·7	48·2	+ 7·2	43	0	4	0·30	-0·17	10·3	- 7·2	15	-11
	Kilkenny	59	32	54·1	43·6	48·9	+ 6·9	48	0	3	0·20	-0·32	*	*	*	*
	Roche's Point	55	38	52·9	44·9	48·9	+ 5·2	48	0	5	0·43	-0·47	*	*	*	*
	Valencia	55	35	52·9	46·0	49·5	+ 4·7	53	0	7	0·84	-0·28	12·6	- 7·1	17	-11
	Killarney	58	32	54·5	45·3	49·9	+ 5·9	55	0	5	1·23	?	*	*	*	*
	Foynes	?	34	?	44·2	?	?	?	?	2	0·43	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	44	51·3	46·0	48·7	+ 3·0	47	0	2	0·05	-0·53	6·0	?	8	?
	Jersey	54	42	51·9	45·6	48·8	+ 5·5	48	0	3	0·06	-0·47	17·4	- 7·4	24	-11

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

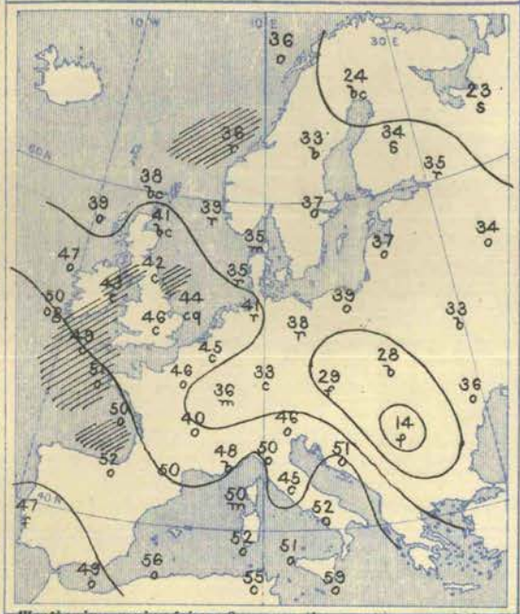
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 21st February.

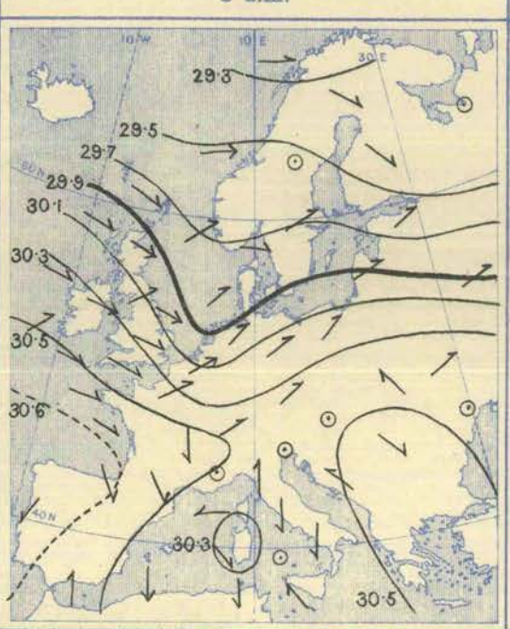
Temperature and Weather.

8 a.m.

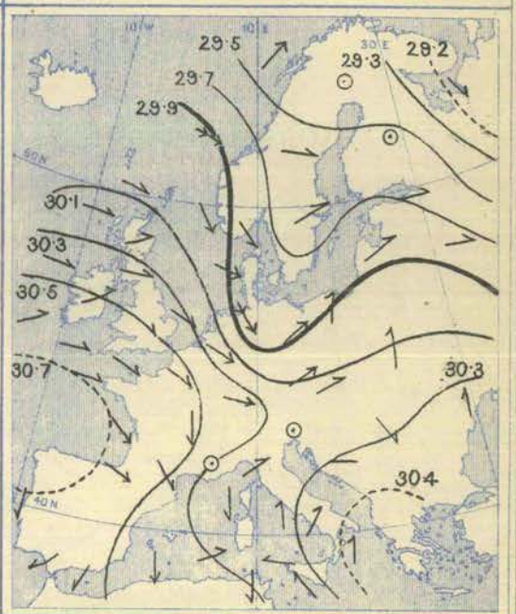


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of the United Kingdom, but dull and showery on our extreme north-west coasts. Dull over the greater part of the Continent, with fog or mist at several of the more central stations, and with rain on the eastern and southern shores of the North Sea; snow falling at Archangel and Kuopio. Fine over the northern parts of Sweden, and also in eastern Austria and the extreme south of France. Dull showery weather setting in later over the west and north of our Islands generally; rain falling also in many of the Continental countries, and snow at Christiansund.

Temperature fallen in our Islands and Scandinavia, but risen in most other countries. Morning readings highest, 59° at Malta, 58° at Barcelona, 56° at Algiers, and 55° at La Calle; above 50° at many of the Mediterranean and Adriatic stations, and just touching that point at Valencia (Ireland). Lowest, (1) 14° at Hermanstadt, 27° at Buda-Pesth, and 28° at Lemberg; (2) 23 at Archangel, 24° at Uleaborg, and 26° at Haparanda. Rising during day to 50° and upwards in many parts of the United Kingdom, and to 55° at Roche's Point; exceeding 60° at several stations in southern Europe, and reaching 66° at Palermo, and 68° at San Fernando.

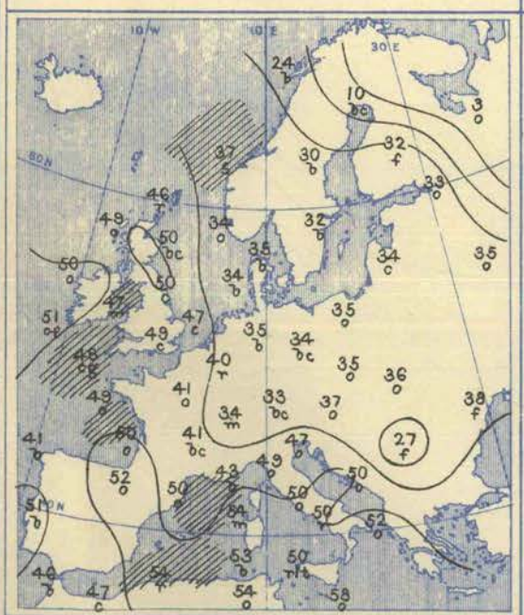
Wind Westerly or North-Westerly over our Islands and France, and strong in force in many parts of Great Britain. South-Westerly over all the more central parts of the Continent; light to fresh in force generally, but blowing a gale at the Helder. Calm or North-Westerly over Lapland and the north of Sweden. Calm in Austria; Northerly at most of the Italian stations, and also over the Spanish Peninsula. Subsequently veering to the North-Westward on the eastern shores of the North Sea, and increasing to a gale. Backing to the South-Westward on some parts of our own western coasts.

Barometer highest, 30·6 ins. and upwards in an anticyclone lying over the greater part of the Spanish Peninsula and the southern part of the Bay of Biscay; 30·5 ins. and upwards in another system lying over south-eastern Europe. Lowest, 29·3 ins. and less in a depression over the north of Norway; 29·8 ins. and less in a well marked secondary system off the Dutch coasts. Anticyclone over Spain subsequently spreading northwards; depressions both moving eastwards—the secondary system on to the Baltic.

Monday, 22nd February.

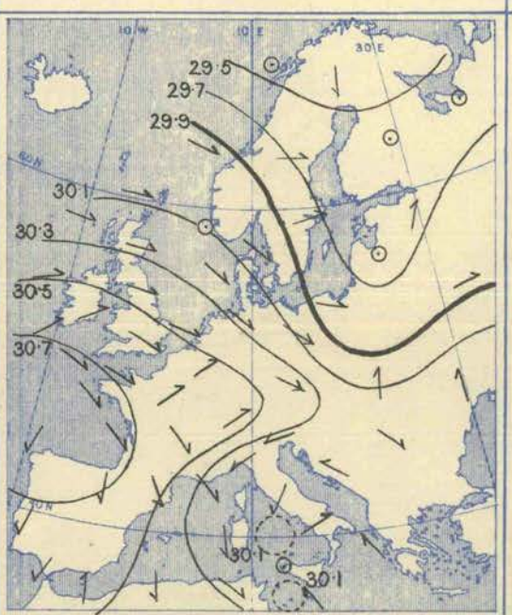
Temperature and Weather.

8 a.m.

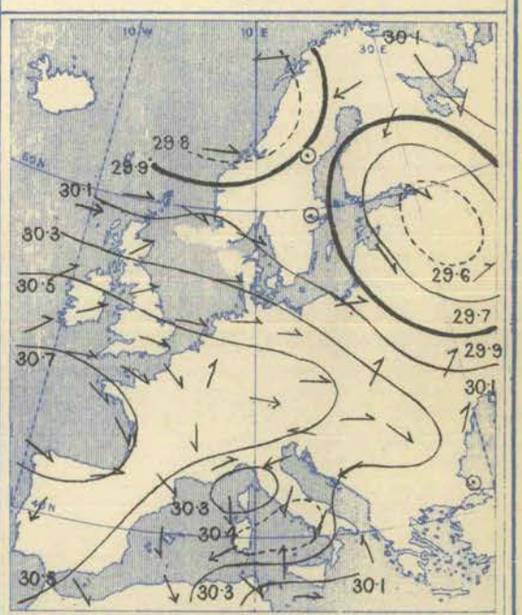


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the eastern parts of Great Britain, as well as over the greater part of Scandinavia, Denmark, north Germany, Spain, and the south-east of France. Dull elsewhere, with mist or fog on several parts of our own western coasts, as well as at many of the Russian stations; rain falling at Sumburgh Head, Brussels, and Naples, and snow at Christiansund; thunderstorm reported at Palermo. Slight rain falling during day in isolated parts of our Islands; large amounts reported in Italy, and a thunderstorm, with hail, at Algiers.

Temperature risen in our Islands, and also over Austria and northern Italy; fallen elsewhere Morning readings highest, (1) 58° at Malta, 54° at Algiers and La Calle, and 53° at Cagliari; (2) 51° at Nairn and Valencia (Ireland), and 50° at several of our own western and northern stations. Lowest, 3° Fahr. at Archangel, 10° at Haparanda, and 24° at Uleaborg and Bodö. Rising during day to 55° and upwards in many parts of the United Kingdom, and reaching 64° at Aberdeen; scarcely exceeding 55° in the south of France; but exceeding 60° in Spain and southern Italy, and reaching 68° at Lisbon.

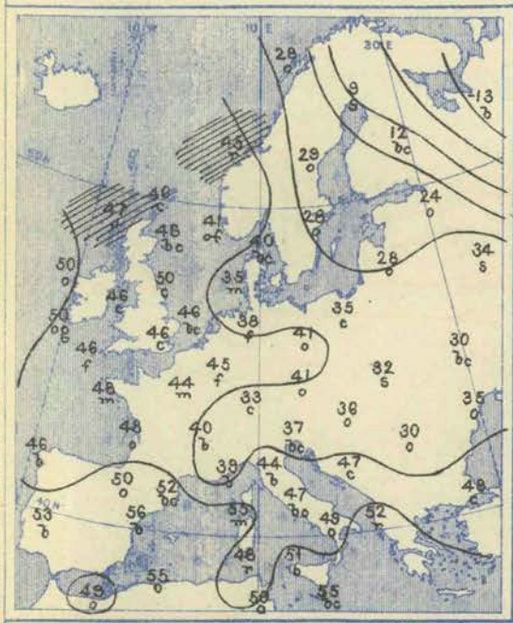
Wind light to moderate from the South-Westward or Westward over our Islands and the Netherlands, and from the North-Westward over the western parts of the Continent generally; Northerly or North-Easterly over the Spanish Peninsula. South-Westerly over Russia; variable in Austria and Italy. No important change occurring over Western Europe during day, but moderate to strong North-Easterly winds setting in over Italy and the Adriatic.

Barometer highest, 30·7 ins. and upwards in the central portion of an anticyclone lying over the Bay of Biscay, the west of France, and the extreme south-west of our Islands. Lowest, 29·5 ins. and less in a depression over the northern parts of Scandinavia; 30·2 ins. and less in a large shallow area over Italy and the neighbouring parts of the Mediterranean. New, but shallow, depression appearing later off the west of Norway; well defined system developing over Finland, and moving eastwards.

Tuesday, 23rd February.

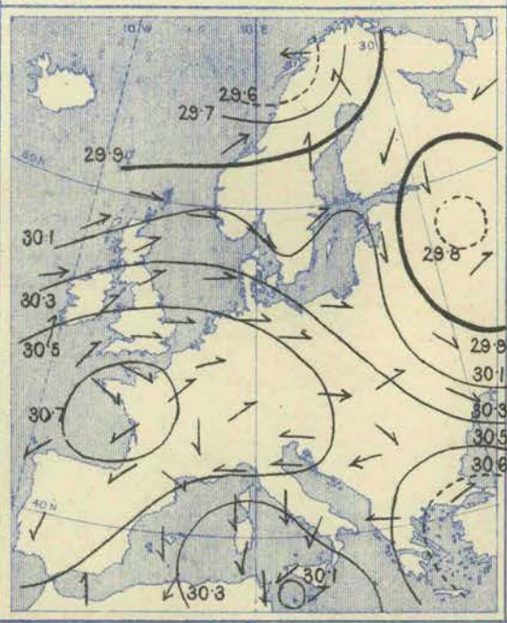
Temperature and Weather.

8 a.m.

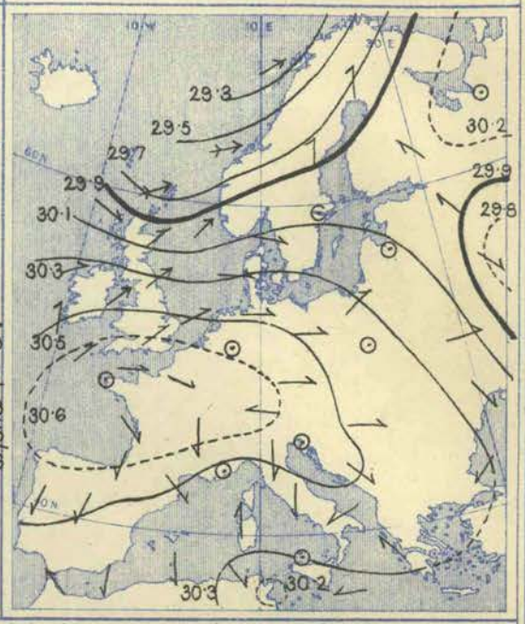


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, as well as at several stations in northern Europe, in Scotland, and the east of England; cloudy or overcast elsewhere, with fog and slight rain on our south-west coasts, snow at Haparanda and Moscow, as well as in Hungary; rain at Swinemunde. Considerable rain in the north-west of Norway later, and smaller quantities in the north and west of our Islands. Weather fair over the eastern parts of the English Channel.

Temperature highest, 56° at Barcelona, and 55° to 50° at several of the southern stations in the Mediterranean; 53° at Lisbon, 50° at Biarritz, Valencia, and Belmullet, 47° at Stornoway. Rising later to 57° at the North Foreland and Paris, to between 50° and 56° in many parts of the United Kingdom, and to 60° and upwards over Spain and southern Italy; reaching 66° at San Fernando. Succeeding night cold over central France and our own eastern counties.

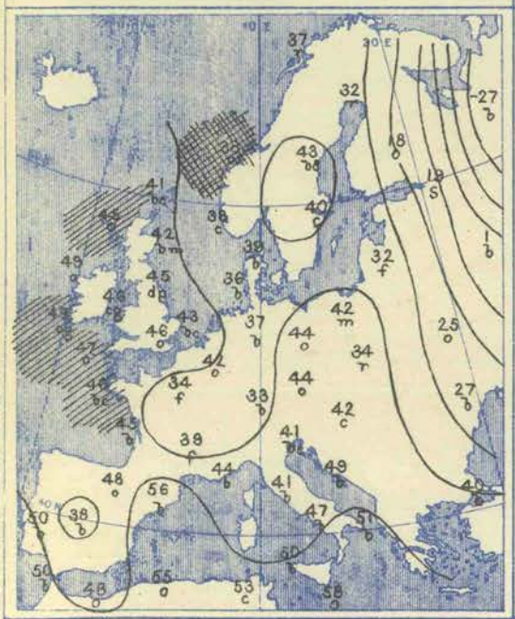
Wind (1) South-Westerly, fresh to strong, on our north-western and northern coasts, and blowing a gale at Christiansund; Easterly, strong, at Bodö, and South-Easterly at Haparanda; (2) a cyclonic circulation of light winds prevailing over Russia, and another similar system over the southern side of the Mediterranean; (3) light and anticyclonic over the Bay of Biscay, Spain, and France, and also over Turkey in Europe and Asia Minor. Blowing a strong gale over the Shetlands and north-west of Norway later, but moderating on our own north-western and western coasts.

Barometer highest, 30·7 ins. and more to 30·5 ins. in a large anticyclone covering the north-west of Spain, the Bay of Biscay, the southern half of our Islands, and the whole of France; and 30·6 ins. and more to 30·5 ins. in another system over Asia Minor and the Balkan Peninsula. Lowest, 29·6 ins. and less in a depression over the north-west of Norway; below 29·9 ins. over central Russia, and below 30·2 ins. over Tunis, Malta, and the south of Sardinia. Falling fast over Scandinavia later, changing little and irregularly over our Islands.

Wednesday, 24th February.

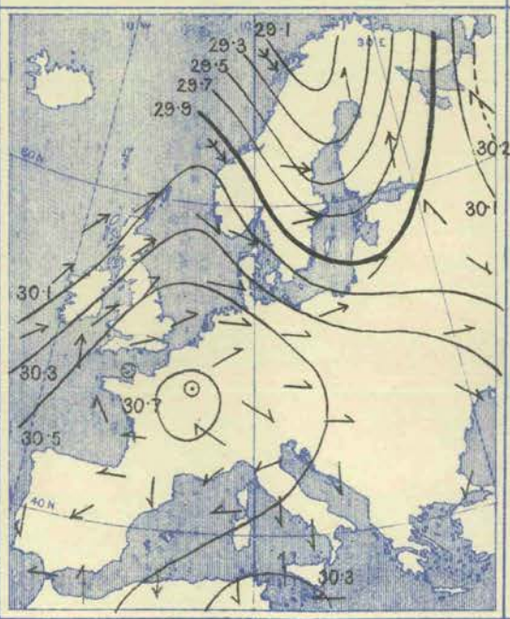
Temperature and Weather.

8 a.m.

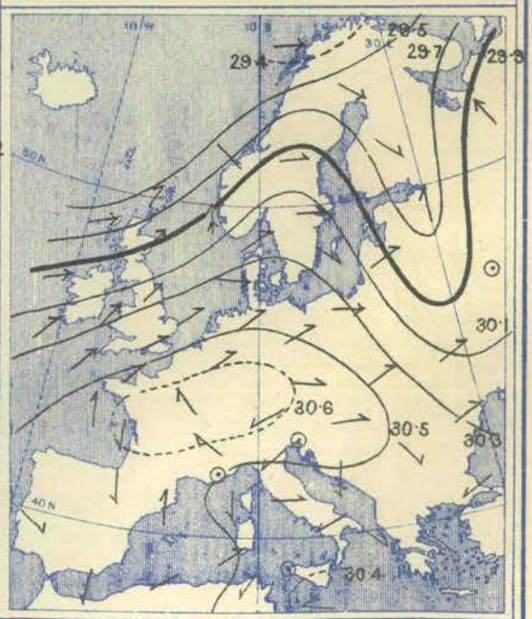


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at a few of the Irish and Scotch stations, but dull over the United Kingdom generally. Fine in most parts of Sweden, Denmark, and Holland, as well as in all the more southern parts of Europe, but foggy over central France, and dull in Germany and Russia, and also in the west of Norway; rain falling at Swinemunde and Warsaw, as well as at Bodö, and snow at St. Petersburg. Rain falling later in the west and north of our Islands generally—heavily in the Hebrides and west of Ireland. Lightning seen at night in the north of Scotland, and an aurora at Wick.

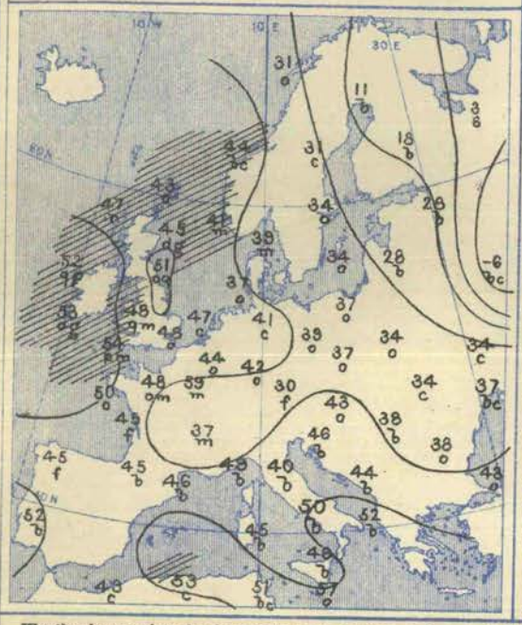
Temperature fallen in most of the western and southern countries, and also in Russia; risen elsewhere—especially in Sweden. Morning readings highest, 58° at Malta, 56° at Barcelona, and 55° at Algiers and Aumale; above 50° at several of the Mediterranean stations, and very little below it in the west of Ireland. Lowest, −27° Fahr. at Archangel, +1° at Moscow, 18° at Kuopio, and 19° at St. Petersburg. Rising during day to 50° and upwards in many parts of the United Kingdom, and reaching 55° at Nairn; exceeding 60° in many parts of southern Europe, and touching 66° at Cagliari.

Wind Southerly or South-Westerly in our Islands, light to fresh in force generally, but blowing a gale at Belmullet. Strong to a gale from the North-Westward on the west coasts of Norway, moderate to strong from the Westward over Sweden, Denmark, Germany, and Austria; Southerly or South-Easterly over the northern parts of Russia. Northerly in Italy, North-Easterly over the Spanish Peninsula, Easterly in the west of France. Subsequently increasing to a gale from the Southward or South-Westward on our own north and north-west coasts; no important change occurring elsewhere.

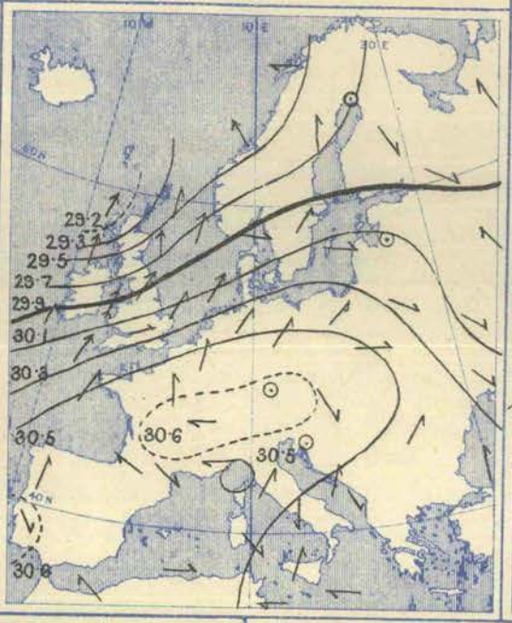
Barometer highest, 30·7 ins. and upwards over central France; 30·4 ins. and upwards in an anticyclone embracing the more central and southern parts of the Continent, and extending over nearly the whole of England. Lowest, 29·1 ins. and less in a deep depression over the north of Norway; 30·0 ins. and less in another disturbance approaching our extreme north-west coasts. Latter system subsequently travelling north-eastwards, and barometer falling quickly in Scotland.

Thursday, 25th February.

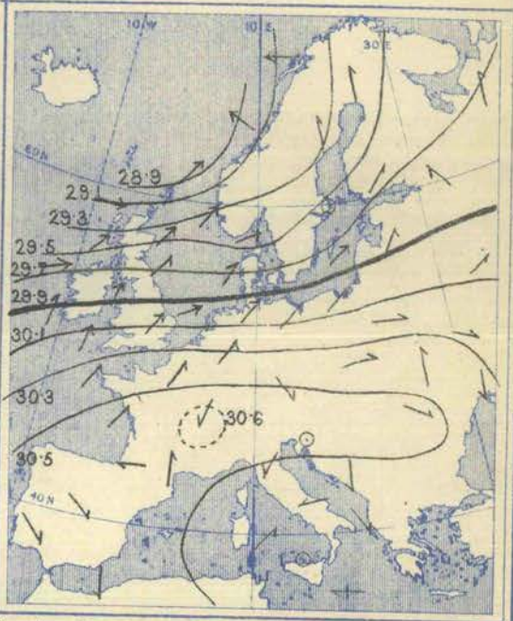
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western and central Europe generally, with rain in many parts of Ireland and Scotland, and with fog or mist at several of the Continental stations. Fine and bright over the southern countries, as well as many stations in the northern parts of Russia and Scandinavia, but snow falling at Archangel. Rain occurring later in the west and north of our Islands generally, as well as over the northern parts of the Continent, and snow in Lapland. Bright aurora seen at Aberdeen.

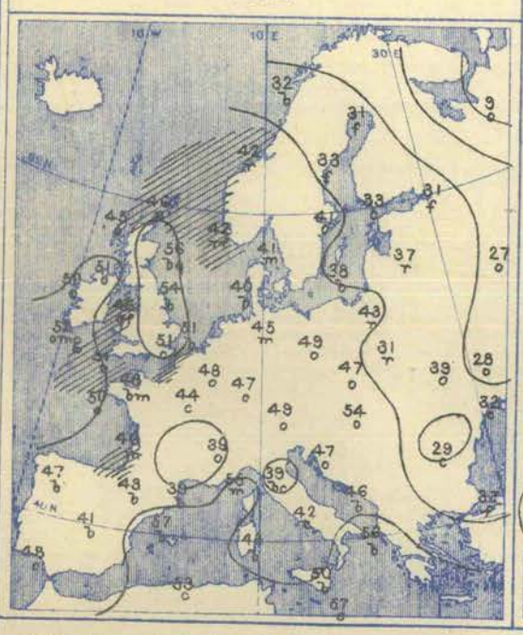
Temperature risen in most of the western and southern countries, but fallen elsewhere. Morning readings highest, (1) 57° at Malta, 56° at Sanguinaire, and 55° at La Calle; (2) 54° at Parsonstown, and 53° at Valencia (Ireland); above 50° at several of our own western and northern stations. Lowest, -6° Fahr. at Moscow, +3° at Archangel, 11° at Uleaborg, and 12° at Haparanda. Rising during day to 55° and upwards at several stations in Ireland and the northern parts of Great Britain, and to 59° at Aberdeen; exceeding 60° over southern Europe generally, and reaching 68° at Perpignan and Madrid.

Wind South-Westerly over north-western Europe generally, and strong to a gale in force on our own western and northern coasts. Light from the North-Westward over Russia, variable in nearly all the more southern countries. Subsequently increasing to a strong breeze at the English Channel stations; no important change occurring elsewhere.

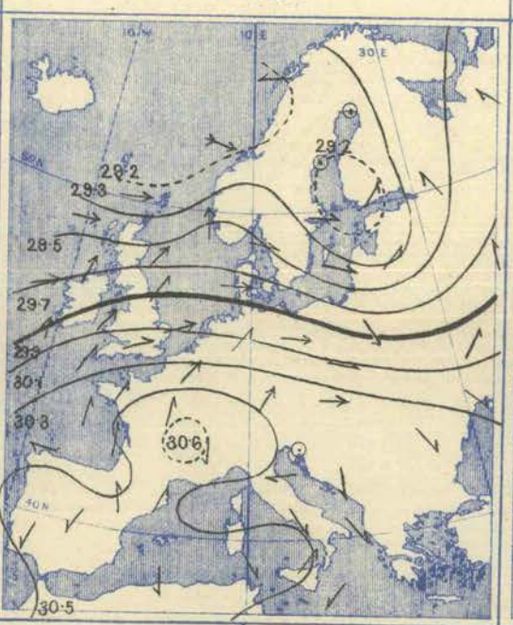
Barometer highest, 30·6 ins. and upwards in two areas, one lying over Portugal and the other over central France and south Germany; 30·3 ins. and upwards in an anticyclone embracing the entire southern half of Europe. Lowest, 29·2 ins. and less in a well-marked depression having its centre off the north-west of Scotland. Gradients steep over our Islands and the North Sea. Depression subsequently travelling north-eastwards, and barometer rising on our extreme western coasts.

Friday, 26th February.

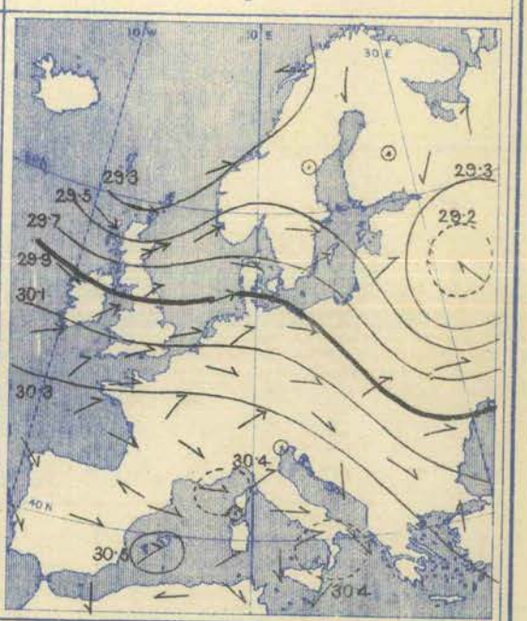
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western, northern, and central Europe generally, with fog or mist in places, and with rain in the west of Norway, as well as over Poland and the Baltic Provinces; snow reported at Helsingfors. Fine along the east coasts of Great Britain, and also over southern Europe generally. A little rain falling later at several of our own western and northern stations, but weather improving over the United Kingdom generally. Bright aurora seen in the north of Scotland.

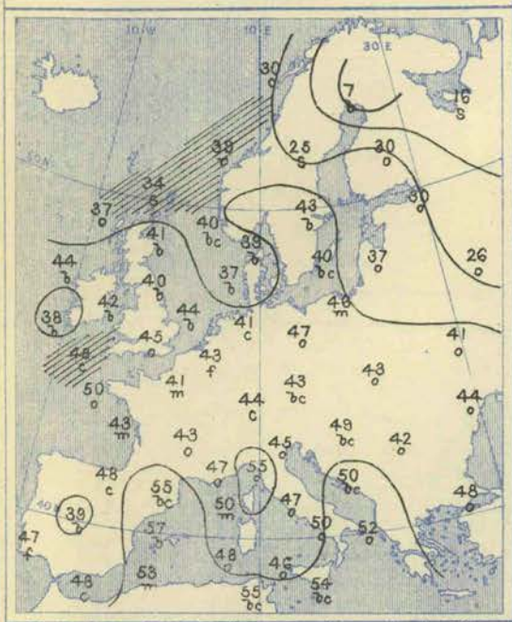
Temperature risen generally. Morning readings highest, (1) 57° at Barcelona and Malta, 56° at Brindisi, and 55° at Nice; (2) 56° at Aberdeen, and 55° at Leith and Donaghadee; above 50° in many parts of our Islands. Lowest, 9° at Archangel, 27° at Uleaborg and Moscow, and 28° at Kiev. Exceeding 55° later in many parts of Great Britain, and reaching 61° at Aberdeen; exceeding 60° also in Paris, and over southern Europe generally; touching 68° at Biarritz, and 72° at Cagliari.

Wind moderate to strong from the South-Westward over the greater part of our Islands, the Netherlands, and the north of France, but Westerly in the north of Scotland, as well as over Denmark, Germany, Austria, and the Baltic; light from the Southward or South-Eastward in Russia. Light and variable over southern Europe as a whole. Subsequently increasing to a gale from the South-Westward on several parts of our north and north-west coasts, and from the North-Westward in Caithness.

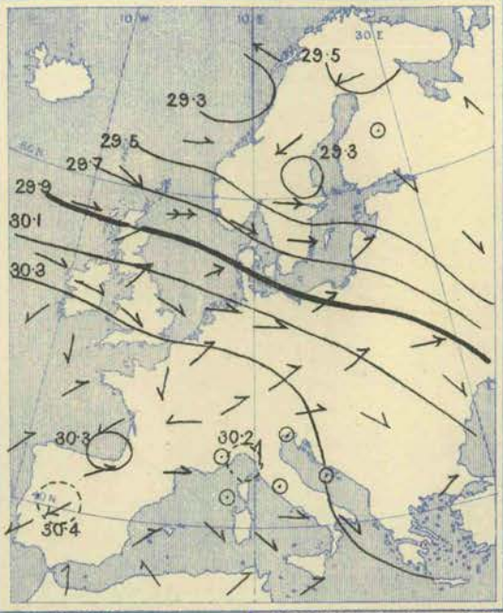
Barometer highest, 30·63 ins. at Madrid; 30·60 ins. at Lyons; 30·4 ins. and upwards in an anticyclone embracing all the more southern parts of Europe. Lowest, 29·2 ins. and less in two depressions—one lying off the west of Norway, and the other over the Gulfs of Finland and Bothnia. Brisk rise of barometer taking place later on our western coasts. Depression over Gulf of Bothnia moving on to central Russia.

Saturday, 27th February.

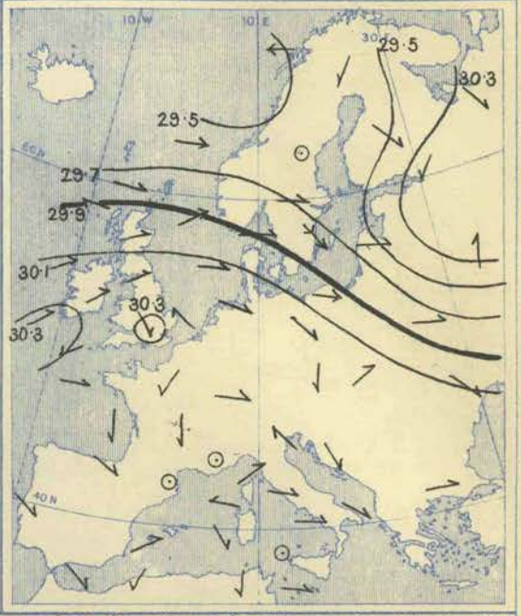
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over western and central Europe generally, but foggy at some of the English Channel stations, and also at Brussels. Dull over the northern and eastern countries, and also in Italy; rain falling at Christiansund, and snow at Archangel and Hernösand. Showers falling later in several parts of Great Britain; no important change occurring elsewhere.

Temperature risen generally—quickly in the west and north of our Islands. Morning readings highest, 57° at Palma, 55° at Sfax, 54° at Malta, and 53° at Algiers; slightly above 50° at several of the Mediterranean stations. Lowest, 7° at Uleaborg, 8° at Haparanda, 16° at Archangel, and 25° at Hernösand; below the freezing point over the northern parts of Russia and Scandinavia generally, and below 40° at several of our own northern and central stations. Rising during day to 50° and upwards at many of the English and Irish stations; exceeding 60° over southern Europe generally, and reaching 70° at Cagliari, and 72° at Gap. Frost occurring at several of our own northern and central stations at night.

Wind light to fresh from the Westward over the northern and eastern parts of our Islands, and strong to a gale from the same quarter over Denmark and the south of Scandinavia; Easterly or North-Easterly over the northern parts of Scandinavia; North-Westerly over Russia; South-Westerly in Germany. Light from the Northward in the south-west of our Islands; variable in France and Italy; North-Easterly in Spain. Subsequently backing to the South-Westward on our own extreme western coasts; veering to the North-Westward and increasing to a gale at some of the Baltic stations.

Barometer highest, 30·3 ins. and upwards in an anticyclone embracing all the more southern parts of Europe, including the greater part of England and Ireland. Lowest, 29·3 ins. and less in two depressions—one lying off the west of Norway, and the other over the southern part of the Gulf of Bothnia. Depressions subsequently moving eastward, but new disturbance beginning to appear off our extreme western coasts in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze: ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week a large anticyclone spread temporarily over our Islands from the southward, the weather being fine in the more eastern districts, but dull and misty in the west. After the 22nd, however, the high pressure system receded southward, while large depressions began to skirt our north-western and northern coasts on their way from the Atlantic to the Scandinavian Peninsula. The centres of the disturbances were at first at a considerable distance from our shores, and although the wind backed to the South-Westward very generally, it remained moderate in force on all but our extreme north-west coasts. Later on, however, the systems came nearer to us, and gales from the South-Westward spread gradually over all the more western and northern parts of the Kingdom, while considerable amounts of rain fell along the west coasts of Ireland and Scotland. The temperatures recorded about this time were very high for the time of year, especially in the north; at Aberdeen the thermometer exceeded 60° both on the 22nd and the 26th.

Towards the end of the period the flow of depressions came temporarily to an end, and the anticyclone in the south again spread northwards over Ireland and England. The wind now veered to the Westward, and temperature fell decidedly, frost being experienced on the nights of the 26th and 27th at many of our northern and central stations. Quite at the close of the week, however, the anticyclone was again receding, and fresh depressions were beginning to approach our north-west coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 42.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	19·7	+ 4·5	28	+ 6	SOUTHPORT	16·6	?	23	?
OSWALDKIRK (Yorkshire)	19·4	+ 2·4	27	+ 3	MANCHESTER (Oldham Road)	12·2*	?	17*	
WORKSOP	13·3	- 2.7	18	- 5	COLWYN BAY	28·4	?	39	?
THURCASTON (Leicestershire)	18·9	+ 2·9	26	+ 3	NEWQUAY	4·5	-17·4	6	-25
MARGATE	25·8	+ 7·2	35	+ 9	TORQUAY	14·7*	- 4·4	20*	- 7
WESTBOURNE (Sussex)	20·9*	- 0·3	29*	- 1	GUERNSEY	15·3*	- 9·0	21*	-13
BRIGHTON	14·8	- 6·2	20	- 9					
EASTBOURNE	21·6	+ 2·1	30	+ 3					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV. No. 9.] *Third Series.* WEEK ENDING SATURDAY, MARCH 6TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 50.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	24	42·6	32·6	37·4	1 below	2	− 5	32	− 3	52	− 7	388	+27
	1. SCOTLAND, EAST	49	19	42·3	30·9	36·5	2 below	1	−10	38	− 1	66	− 9	420	+32
	2. ENGLAND, N.E.	48	28	44·4	33·3	38·6	1 below	7	− 5	39	− 2	78	+ 7	324	−18
	3. ENGLAND, EAST.	51	29	46·8	34·1	40·2	1 above	13	− 3	29	− 7	86	− 1	343	−48
	4. MIDLAND COUNTIES.	51	26	46·2	33·4	39·6	0 (average)	12	− 3	32	− 3	94	0	350	−38
	5. ENGLAND, SOUTH	52	32	47·6	36·3	41·8	1 above	13	− 2	23	− 5	109	0	241	−72
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	49	28	44·3	34·0	39·0	1 below	6	− 5	29	+ 2	65	−23	295	+20
	7. ENGLAND, N.W.	50	29	45·6	35·3	40·3	0 (average)	10	− 2	25	− 2	77	− 3	266	−20
	8. ENGLAND, S.W.	51	29	47·1	36·0	41·4	1 below	14	− 5	24	+ 2	135	− 4	176	−56
	9. IRELAND, NORTH	49	29	44·9	33·2	38·9	2 below	8	− 7	32	+ 8	92	−26	255	+15
	10. IRELAND, SOUTH	51	29	47·0	35·0	40·8	2 below	14	− 9	27	+10	176	− 3	183	− 1
	—CHANNEL ISLANDS	51	35	48·6	39·5	43·9	1 below	24	0	7	− 3	230	+36	67	−39

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 50.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	8	1 less	42	− 4	6·6	− 3·8	15	− 2	17	− 6	84	+ 3	16	0
	1. SCOTLAND, EAST	6	6	1 more	35	0	3·4	− 2·1	14	− 6	18	−10	98	− 14	19	− 2
	2. ENGLAND, N.E.	5	6	3 more	40	+ 7	4·3	+ 0·5	15	− 4	20	− 7	100	− 9	19	− 1
	3 ENGLAND, EAST.	5	10	7 more	42	+ 8	5·3	+ 1·5	29	+ 8	39	+ 9	110	− 18	20	− 3
	4. MIDLAND COUNTIES.	6	11	8 more	38	+ 6	5·7	+ 1·2	20	+ 1	27	0	98	− 21	17	− 4
	5. ENGLAND, SOUTH	6	17	13 more	37	+ 6	6·7	+ 1·6	22	0	29	0	106	− 23	19	− 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	13	5 more	35	− 4	6·4	− 3·7	24	+ 6	33	+ 8	109	+ 7	20	+ 1
	7. ENGLAND, N.W.	6	11	7 more	41	+ 6	5·2	− 0·4	21	+ 4	28	+ 5	86	− 18	17	− 3
	8. ENGLAND, S.W.	6	19	12 more	42	+ 8	9·0	+ 1·7	20	− 4	27	− 6	119	− 24	21	− 5
	9. IRELAND, NORTH	6	15	9 more	42	+ 1	5·9	− 0·7	24	+ 5	32	+ 7	123	+ 8	23	+ 1
	10. IRELAND, SOUTH	6	18	11 more	39	+ 1	7·3	− 0·2	24	+ 3	32	+ 3	137	0	25	0
	—CHANNEL ISLANDS	7	19	14 more	49	+ 9	8·1	+ 1·8	17	− 6	26	−11	122	− 44	20	− 8

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, and the two Manchester stations (Prestwich and Oldham Road) and for Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very unsettled and stormy, with considerable falls of rain during the greater part of the week, and heavy showers of hail, sleet, or wet snow towards its close. Thunder and lightning occurred at times in many parts of the Kingdom.

Temperature was rather below the mean in most districts, but just equalled it in the Midland counties and England N.W., and slightly exceeded it in England S. and E. The highest of the maxima were registered on somewhat irregular dates, and ranged from 52° in England S. to 48° in England N.E. The lowest of the minima were recorded, as a rule, about the middle of the week, when they ranged from 19° in Scotland E. and 24° in Scotland N. to 32° in England S. and 35° in the Channel Islands.

Rainfall exceeded the mean in all districts excepting Scotland N. Over Ireland and the greater part of England the fall was very heavy, amounting to about four times as much as the mean over the central and southern districts. In Scotland E. the excess was very slight.

Bright Sunshine was deficient in most parts of Great Britain, but exceeded the normal over Ireland and also in England E. and N.W. and Scotland W. The percentage of the possible duration ranged from 39 in England E., and from 33 in Scotland W., and 32 in Ireland to 18 in Scotland E., and 17 in Scotland N.

Barometer and Wind.—The distribution of pressure during this period was cyclonic, and the changes in the barometer were frequent. At first depressions, moving north-eastwards, skirted our western and northern coasts and caused strong Southerly winds or gales on our western and northern coasts generally. On the night of Tuesday, however, a very deep system travelled rapidly across England from the south-westward and occasioned very violent Southerly to Westerly gales over all the southern half of the Kingdom. This disturbance was followed by other systems in the north-westand north, and the winds continued fresh or strong. By Saturday, however, the barometer had risen quickly in the west and the wind had shifted to the northward very generally, and moderated in force.

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II.—DATA from which the SUMMARY on page 49 has been calculated:

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head Ⓢ	45	33	43·4	35·9	39·5	+ 1·6	4	21	6	0·83	+0·15	*	*	*	*
	Stornoway Ⓢ	45	30	42·9	32·6	37·6	− 1·3	3	32	6	0·56	−0·32	26·9	+ 8·0	36	+ 9
	Wick Ⓢ	47	31	44·0	35·1	39·4	+ 1·0	6	25	5	0·31	−0·22	*	*	*	*
	Lairg Ⓢ	49	26	41·9	29·9	35·7	− 1·1	0	44	7	0·67	−0·03	*	*	*	*
	Glencarron Ⓢ	45	24	41·2	30·8	35·9	− 1·2	0	43	7	0·73	−0·68	*	*	*	*
	Fort Augustus Ⓢ	45	27	42·4	30·7	36·4	− 2·4	1	39	7	0·93	+0·05	5·4	− 7·8	7	−11
	Fort William Ⓢ	46	27	42·5	33·0	37·6	− 2·0	1	31	5	1·74	+0·09	13·8	− 3·5	19	− 5
1. SCOTLAND, E.	Nairn	46	26	43·1	29·9	36·3	− 2·3	3	42	5	0·26	−0·20	*	*	*	*
	Aberdeen	45	31	42·3	33·9	38·0	− 0·6	1	28	5	0·93	+0·43	8·2	−13·8	11	−20
	Braemar Ⓢ	40	19	38·4	26·4	32·2	− 2·6	0	69	6	1·04	+0·40	19·5†	− 2·3†	26†	− 4†
	Ochtertyre Ⓢ	46	25	42·9	30·7	36·6	− 1·5	3	39	6	0·95	+0·33	*	*	*	*
	Leith Ⓢ	49	31	45·9	33·6	39·6	− 0·3	11	31	5	0·18	−0·10	*	*	*	*
	Marchmont Ⓢ	45	28	41·4	31·0	36·1	− 1·6	0	41	7	0·38	−0·12	15·5	− 4·5	21	− 7
2. ENGLAND, N.E.	Alnwick Castle	45	31	43·7	32·4	37·9	− 0·8	5	34	4	0·65	+0·17	*	*	*	*
	Durham	47	28	43·4	31·4	37·2	− 1·2	4	37	5	0·68	+0·27	15·9	− 4·1	21	− 7
	Shields	47	31	44·7	33·1	38·7	− 1·0	8	32	3	0·29	−0·03	*	*	*	*
	Scarborough Ⓜ	44	31	43·6	34·1	38·7	− 1·1	4	28	6	0·95	+0·59	*	*	*	*
	York	46	29	45·1	32·1	38·4	− 1·4	9	35	6	0·75	+0·42	?17·0	? −1·8	?22	?− 3
	Spurn Head	48	35	45·6	36·4	40·9	+ 1·3	10	21	5	0·46	+0·21	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	51	29	48·2	33·7	40·7	+ 1·9	17	32	4	0·92	+0·56	30·3	+ 9·1	40	+12
	Yarmouth	48	33	44·1	35·3	39·6	+ 0·8	6	24	5	0·95	+0·60	*	*	*	*
	Geldeston	51	29	47·3	34·1	40·5	+ 0·9	15	30	6	0·90	+0·60	33·9	+11·8	45	+14
	Cambridge	50	31	48·7	33·0	40·6	+ 0·6	19	34	6	0·71	+0·43	28·7	+ 7·7	38	+ 8
	Rothamsted	48	32	45·7	34·3	39·8	+ 0·3	10	28	6	1·46	+1·09	23·3	+ 2·3	31	+ 2
4. MIDLAND COUNTIES	Harrogate Ⓜ	45	29	43·2	32·7	37·8	− 1·3	3	32	6	1·37	?	18·3†	?	24†	?
	Bawtry (Hesley Hall)	49	28	46·9	32·6	39·5	− 0·1	14	35	6	0·85	+0·58	*	*	*	*
	Loughborough	49	26	47·1	33·6	40·2	+ 0·2	14	32	6	0·71	+0·40	*	*	*	*
	Stamford (Duddington)	48	27	47·0	33·4	40·0	+ 0·2	14	32	6	0·78	+0·50	*	*	*	*
	Cheadle Ⓜ	48	31	45·5	32·9	39·0	+ 0·7	10	33	7	0·74	+0·27	*	*	*	*
	Shirley (near Solihull)	47	27	45·6	32·0	39·1	− 0·8	10	33	7	1·33	?	*	*	*	*
	Churchstoke Ⓜ	49	28	45·8	32·7	39·1	− 0·4	11	34	6	1·75	+1·31	25·1	+ 5·1	33	+ 6
	Hereford Ⓜ	51	28	48·9	34·0	41·2	+ 1·0	19	31	5	0·90	+0·56	*	*	*	*
	Cirencester	48	32	45·1	33·9	39·3	+ 0·1	9	29	7	1·47	+1·03	22·0	+ 0·3	29	0
	Oxford	49	34	46·6	35·3	40·8	+ 0·6	13	26	7	1·10	+0·77	20·9	+ 0·8	28	+ 1
5. ENGLAND, S.	London	52	33	48·6	35·3	41·8	+ 0·7	18	27	6	1·32	+1·02	20·2†	+ 7·4†	27†	+10†
	North Foreland	50	34	47·6	36·1	41·7	+ 0·5	16	24	5	1·35	?	*	*	*	*
	Dungeness	49	34	46·9	37·9	42·3	+ 2·3	19	11	7	0·80	+0·49	*	*	*	*
	Hastings (St. Leonards)	50	34	47·0	37·2	42·0	+ 1·3	14	13	7	2·13	+1·73	17·4	− 7·6	23	−10
	Southampton	51	33	49·0	35·3	42·0	+ 0·2	20	19	7	2·47	+2·02	21·9	− 1·0	29	− 3
	Hurst Castle	49	35	47·4	38·7	42·9	+ 1·7	20	9	6	1·91	+1·54	*	*	*	*
	Stowell Ⓜ	49	32	46·6	33·6	39·9	− 0·7	13	31	6	1·72	+1·19	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	49	30	43·8	34·4	39·0	− 1·6	5	27	5	2·11	+0·73	*	*	*	*
	Glasgow	46	31	43·0	33·5	38·1	− 1·5	3	29	5	0·59	+0·02	16·3	+ 2·1	22	+ 2
	Ardrossan	49	31	44·4	35·1	39·6	− 0·7	7	25	5	0·55	+0·07	*	*	*	*
	Glenlee Ⓢ	47	28	44·1	30·5	37·1	− 2·1	6	40	6	2·54	+1·70	*	*	*	*
	Douglas (Isle of Man)	49	34	46·0	36·4	41·1	+ 0·4	11	22	5	0·66	+0·08	32·1	+10·1	43	+13
7. ENGLAND, N.W.	Stonyhurst	45	32	43·5	33·6	38·4	− 0·6	4	29	6	1·45	+0·73	21·5	+ 3·0	29	+ 4
	Blackpool Ⓜ	48	30	46·3	35·1	40·5	+ 0·9	12	26	6	1·36	+0·96	?24·5	?+ 6·0	? 33	? + 7
	Manchester (Prestwich)	50	29	47·3	32·6	39·7	+ 0·6	15	35	7	0·79	+0·34	15·5	?	21	?
	Liverpool Obsy. (Bidston)	48	32	45·3	35·6	40·3	− 0·8	9	24	5	0·68	+0·38	*	*	*	*
	Llandudno Ⓜ	49	37	46·1	38·9	42·4	+ 0·5	16	9	5	0·83	+0·44	*	*	*	*
	Holyhead	46	31	45·3	35·7	40·4	− 1·5	9	24	6	1·63	+1·15	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	29	47·0	31·6	39·1	− 1·7	14	39	7	2·37	+1·37	*	*	*	*
	Pembroke	46	35	45·4	37·3	41·2	− 1·1	10	18	5	1·24	+0·73	15·3	− 8·9	20	−13
	Clifton	50	34	46·7	36·5	41·5	− 0·0	13	22	6	1·38	+0·91	*	*	*	*
	Arlington (N. Devon)	49	33	45·0	34·6	39·7	− 1·1	8	27	6	2·06	+1·16	*	*	*	*
	Cullompton Ⓜ	50	32	48·0	35·1	41·4	− 0·9	17	27	6	1·60	+0·92	21·5	− 0·3	28	− 2
	Falmouth	51	34	48·2	38·3	43·1	− 0·6	23	10	6	2·40	+1·53	22·5	− 2·3	30	− 3
	Plymouth	50	34	48·4	37·6	42·8	+ 0·2	24	12	6	2·01	+1·46	18·4	− 5·9	24	− 9
	Prawle Point	51	33	47·7	36·7	42·0	+ 0·2	16	15	6	1·95	+1·55	*	*	*	*
9. IRELAND, N.	Malin Head	45	32	43·1	34·1	38·5	− 3·4	3	28	6	0·84	?	*	*	*	*
	Londonderry	49	31	45·2	33·6	39·2	− 2·3	9	20	6	1·90	+1·40	*	*	*	*
	Edenfel (Omagh)	48	30	43·6	32·1	37·7	− 1·9	4	35	6	1·16	+0·67	*	*	*	*
	Belmullet	49	30	45·9	35·6	40·6	− 2·5	11	24	6	3·05	+2·15	*	*	*	*
	Markree Castle	48	31	44·5	33·3	38·7	− 1·8	7	31	7	1·92	+1·26	19·9	+ 0·9	27	+ 1
	Armagh	49	29	46·2	32·3	39·0	− 0·9	12	35	7	0·95	+0·39	27·6	+ 9·1	37	+12
	Donaghadee	48	31	46·4	33·3	39·7	− 1·3	12	32	6	1·30	+0·90	*	*	*	*
	Edgeworthstown	49	30	44·6	31·0	37·6	− 2·7	7	39	5	0·91	+0·36	*	*	*	*
10. IRELAND, S.	Dublin	51	34	47·1	35·5	41·1	− 1·2	14	25	6	0·66	+0·23	31·6	+10·5	42	+13
	Parsonstown	50	31	45·0	32·6	38·6	− 2·4	8	34	7	1·98	+1·51	19·9	− 0·1	26	− 1
	Kilkenny	49	29	46·4	32·7	39·4	− 2·9	12	35	6	1·08	+0·60	*	*	*	*
	Roche's Point	50	35	47·6	37·0	42·1	− 1·5	22	14	6	1·96	+1·12	*	*	*	*
	Valencia	50	34	48·1	37·1	42·4	− 2·4	23	14	6	2·07	+1·04	21·1	− 1·3	28	− 3
	Killarney	50	30	47·6	35·3	41·3	− 2·7	16	26	6	2·55	?	*	*	*	*
	Foynes	?	32	?	35·8	?	?	?	?	5	2·05	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	51	35	48·4	38·7	43·4	− 1·9	24	9	7	1·73	+1·18	19·3	?	25	?
	Jersey	51	37	48·7	40·3	44·4	+ 0·7	24	5	7	2·11	+1·59	19·3	− 8·4	25	−13

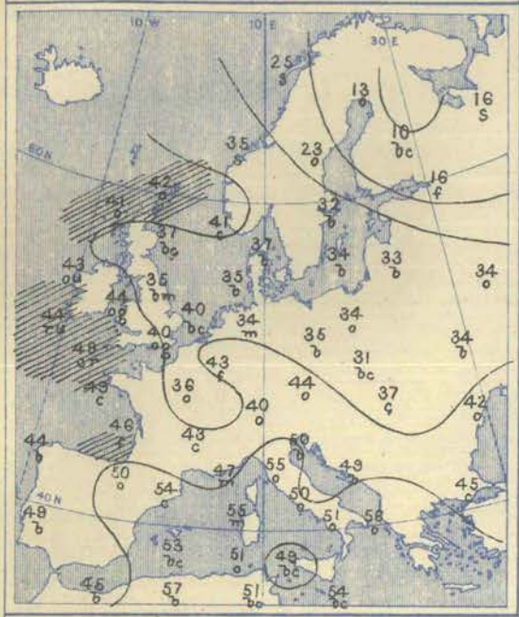
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

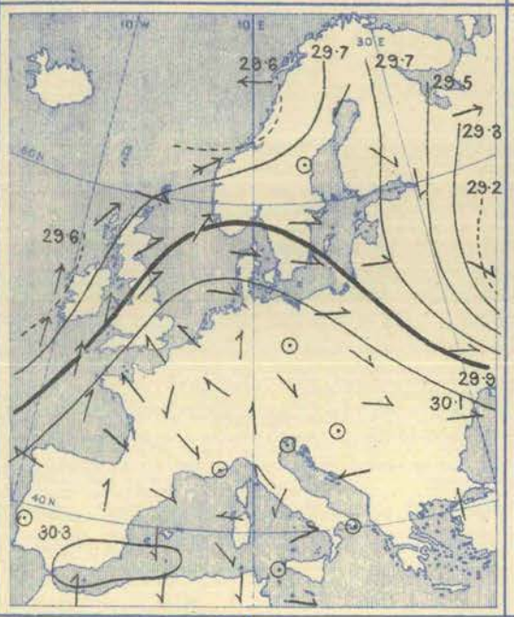
† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Eunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 28th February.

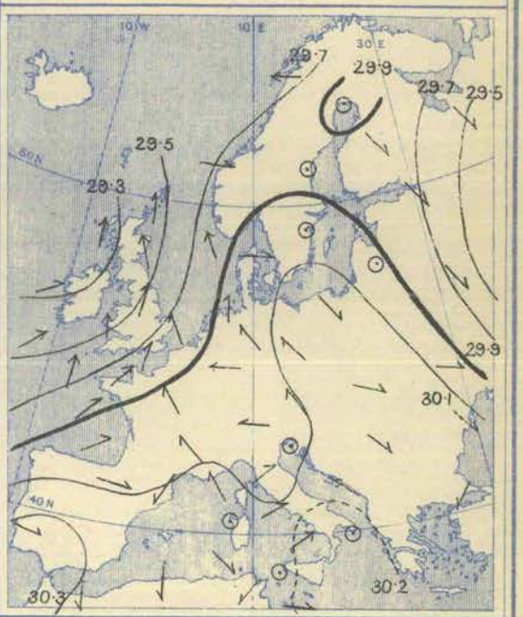
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over many parts of western, central, and southern Europe, but dull or foggy in places; becoming rainy and unsettled over the western parts of the British Islands, and snow falling in the west of Norway. Rain falling later over the British Islands generally, as well as over the neighbouring parts of Continental Europe, and the unsettled weather tending to spread eastwards and southwards.

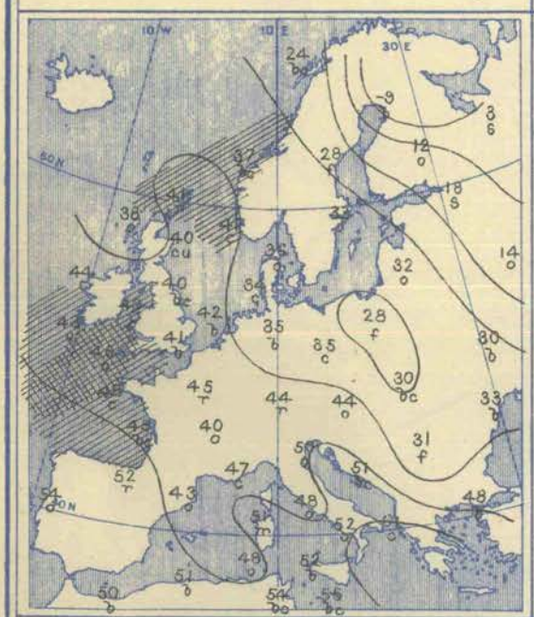
Temperature rising at our western stations. Morning readings highest, 57° to 50° at many of the Mediterranean stations; 49° at Lisbon and Scilly, 47° at Nice and also at Roche's Point, 40° in London, at Ardrossan, and at Wick. Lowest, 10° Fahr. at Kuopio, 13° at Haparanda, and many degrees below the freezing point over northern Europe generally; 32° at York, 34° at Loughborough, 35° at Cambridge and Berlin, 36° at Paris. Rising later to 50° or a little more over our south-western and southern districts, and touching 53° at Paris, 62° at Belfort, 63° at Perpignan, and 68° at Algiers.

Wind light and very variable (mainly anticyclonic) over Spain, France, and central Europe, Southerly, fresh to strong, in the west of our Islands, West-South-Westerly (a gale) at Christiansund, and Easterly, strong, at Bodö. Becoming Southerly all over the United Kingdom later, and blowing very strongly on our south-western and western coasts. The Southerly current spreading Eastwards steadily.

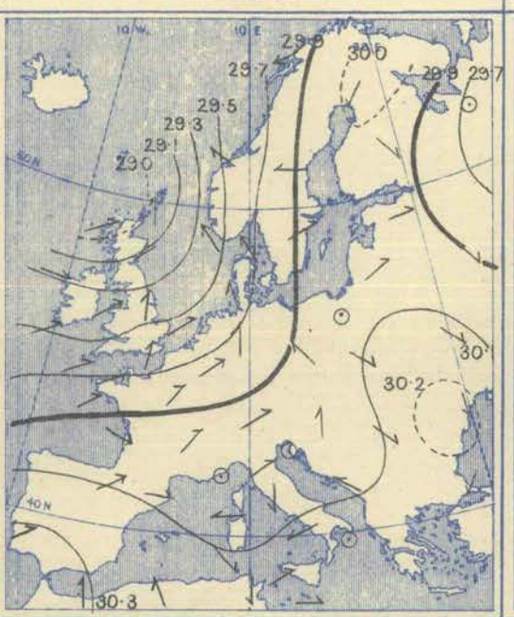
Barometer highest, 30·3 ins. to 30·1 ins. in a complex anticyclone covering south-western and central Europe. Lowest, below 29·2 ins. over central Russia, and below 29·6 ins. off our own north-western coasts. Falling rapidly in the latter region, and fall spreading eastwards quickly.

Monday, 1st March.

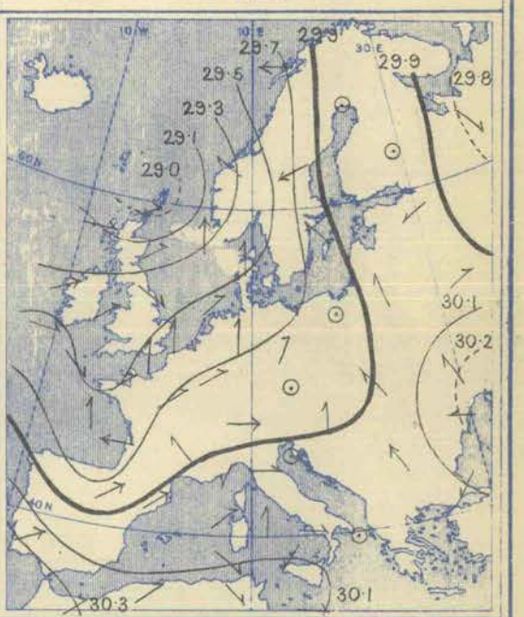
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater part of the United Kingdom, as well as in the western and northern parts of Scandinavia, and at several of the German and south Russian stations. Cloudy or dull elsewhere, with rain in several parts of France and northern Italy, snow at Archangel and St. Petersburg. Rain, hail, or sleet falling later over western Europe generally—heavily over the south of England and the neighbouring parts of the Continent. Lightning seen at Stornoway at night, and an aurora at Wick.

Temperature risen in the north and east of Great Britain, as well as in many parts of France and southern Europe; fallen elsewhere. Morning readings highest, 61° at Brindisi, 57° at Algiers, 55° at Malta, and 54° at Lisbon and Sfax. Lowest, −9° at Uleaborg, −5° at Haparanda, +3° at Archangel, and 12° at Kuopio; below the freezing point in many parts of Sweden and Russia, and very little above it over central Ireland. Daily maxima below 45° at some of our own northern stations, but thermometer reaching 50° at one or two places in the south of England; reaching 55° or more in the south of France. Frost occurring in many parts of the United Kingdom at night.

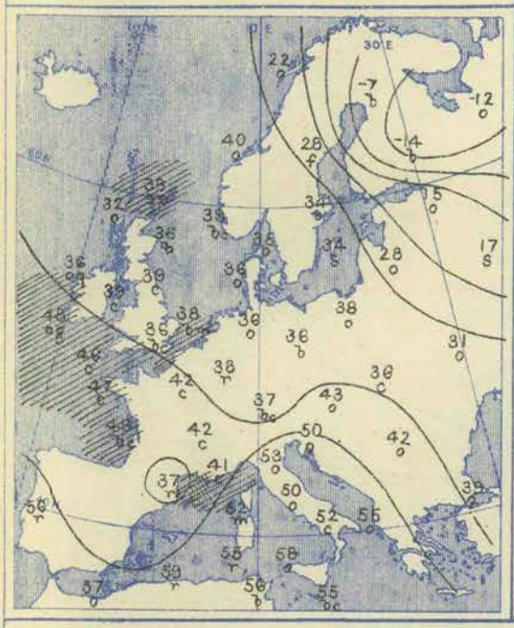
Wind moderate to fresh from the Westward or South-Westward over the greater part of Ireland, England, France, and the Spanish Peninsula; light from the Southward on the north-east coasts of Great Britain, moderate to strong from the South-Eastward over Norway, Denmark, and Germany. Variable over Sweden and northern Russia, North-Westerly in the south of Russia, variable in Italy. Subsequently veering to the North-Westward on our own south-west coasts; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards over the southern parts of the Spanish Peninsula; 30·1 ins. and upwards over a considerable portion of southern and eastern Europe; 30·0 ins. and upwards in Lapland. Lowest, 23·0 ins. and less in a depression lying off the north of Scotland; 29·7 ins. and less in a shallow area over northern Russia. Scotch depression subsequently moving away to the north-eastwards, but shallow secondary system advancing eastwards across the south of England in evening.

Tuesday, 2nd March.

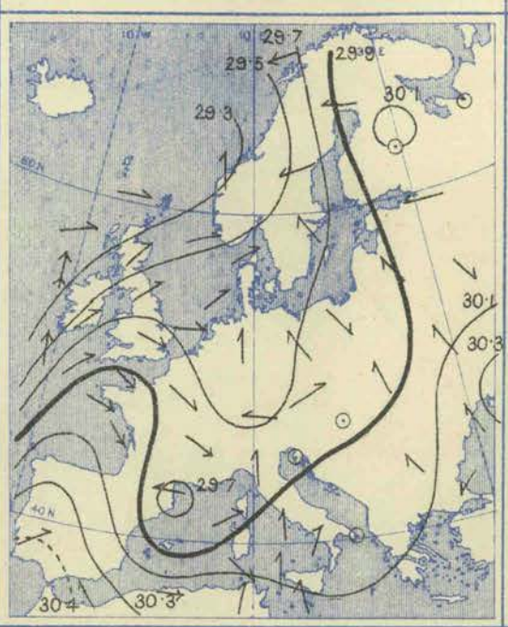
Temperature and Weather.

8 a.m.

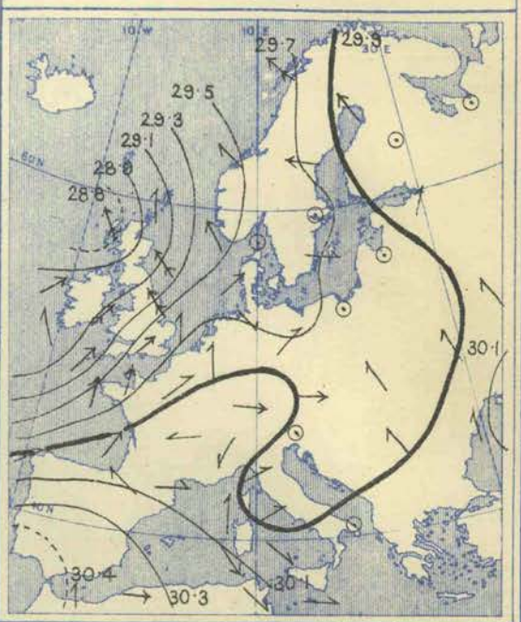


Barometer and Wind.

8 a.m.



6 p.m.



Weather becoming very unsettled and rough over the British Islands and all the neighbouring parts of Europe, as well as in the south-east of France—first in the west and north-west of our Islands, and later on over England. Rain falling later in all districts, hail and sleet in some places, and thunderstorms occurring in the Hebrides. Amounts of rain large over Ireland, the south of England, and north of France, and considerable over the northern half of Italy also.

Temperature changing frequently and fitfully. Morning readings highest, 59° to 56° on many of the Mediterranean coasts, and 56° at Lisbon; 49° at Rochefort, 48° at Valencia (Ireland), 46° at Jersey. Touching 50° in London and at Cambridge, but falling to below the freezing point later at most of our northern and western stations, where sharp frosts occurred on the ground.

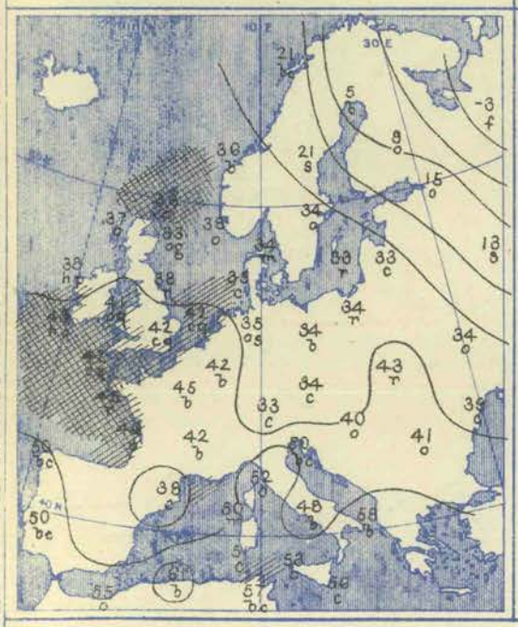
Wind very variable—rising to a gale from the Southward in Ireland and from East-North-East at Bodö. Secondary cyclonic systems of little strength appearing over the North Sea and the north-east of Spain. Large and deep depressions reaching our north-western and south-western coasts later—the latter travelling very rapidly over our south-western districts to England.

Barometer highest, 30·4 ins. and more to 30·0 ins. over the Spanish Peninsula, and over the southern half of Russia, and exceeding 30·0 ins. in a narrow ridge spreading northwards from the latter region to Finland. Lowest, 29·3 ins. and less off our extreme north-western coasts, and below 29·7 ins. in a small disturbance near Barcelona. New and deep depressions advancing over the British Islands later, and barometer falling with unusual rapidity.

Wednesday, 3rd March.

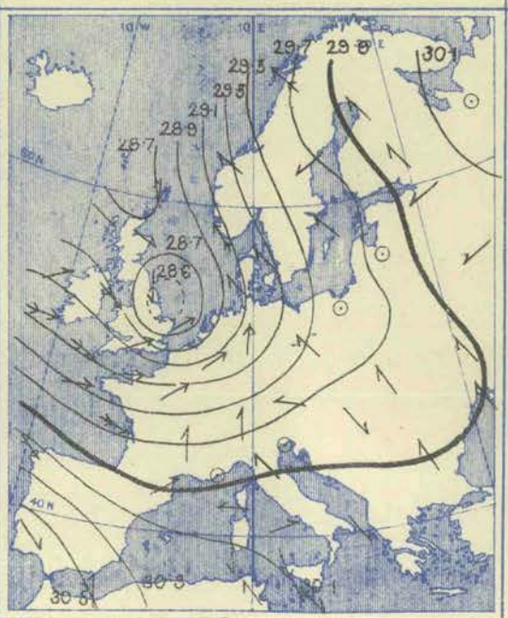
Temperature and Weather.

8 a.m.

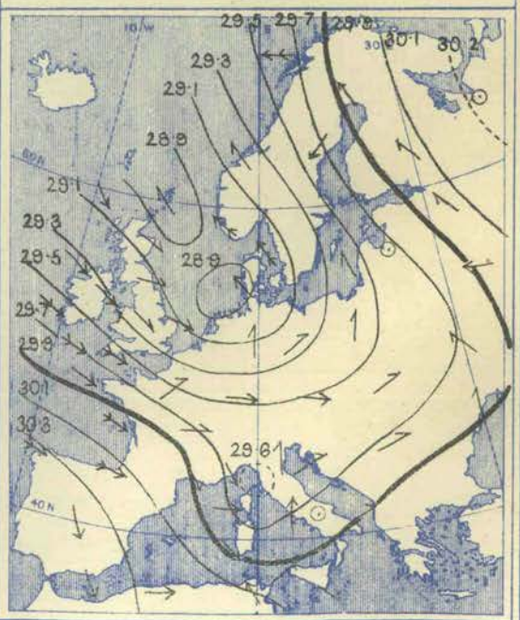


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very rough and unsettled over the whole of the British Islands and their neighbourhood, the sky being clear in some places, densely overcast in others, with squalls of cold rain, sleet and hail at times; cloudy over Russia and south-eastern Europe, fine over the Mediterranean. Further falls of rain occurring later over the British Islands and their neighbourhood, with hail and sleet at the western and southern stations, and thunder and lightning in some localities.

Temperature changing very fitfully over north-western Europe. Morning readings highest, 61° at Algiers, 58° at Brindisi, 53° at Lisbon, 45° at Brest and Paris. Lowest, —3° Fahr. at Archangel, +5° at Haparanda, 13° at Moscow, and much below the freezing point over northern Europe generally. Changes continuing very fitful during the day; slight frost over England at night.

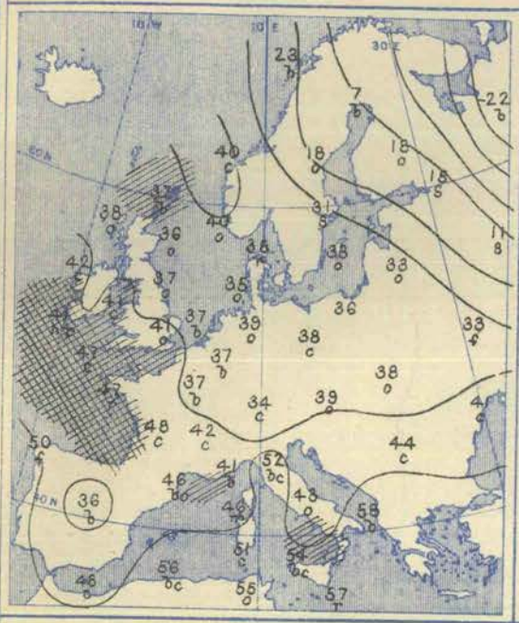
Wind North-Westerly fresh to a gale at our western stations. Westerly and South-Westerly, a strong gale in the south and south-east, Southerly, a gale over the Netherlands, and South-Easterly, a gale on the Norwegian coasts. Light and variable over the Mediterranean and south-eastern Europe. The gale becoming severe in the Channel, the north of France and the Netherlands later, but subsequently veering to north-west and moderating.

Barometer highest, 30·4 ins. to 30·0 ins. over the Spanish Peninsula and north of Africa, and 30·1 ins. and more to 30·0 ins. over the north of Russia and Finland. Lowest, about 28·7 ins. in the north of Scotland, and below 28·6 ins. in a well-marked depression over Yorkshire and Lincolnshire. Latter disturbance moving eastwards during day, and barometer rising rapidly over the United Kingdom.

Thursday, 4th March.

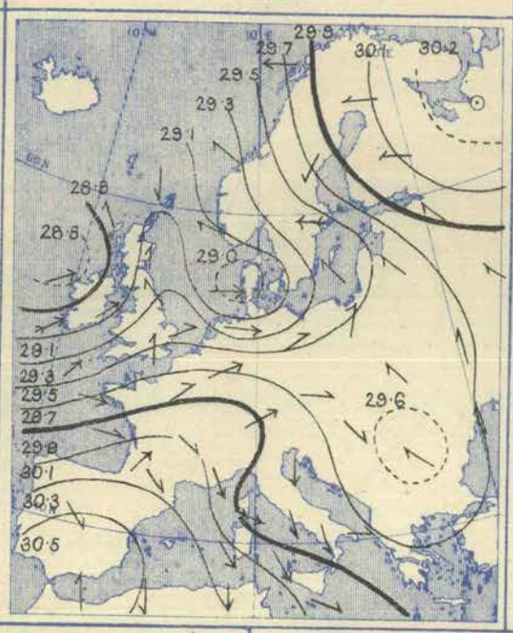
Temperature and Weather.

8 a.m.

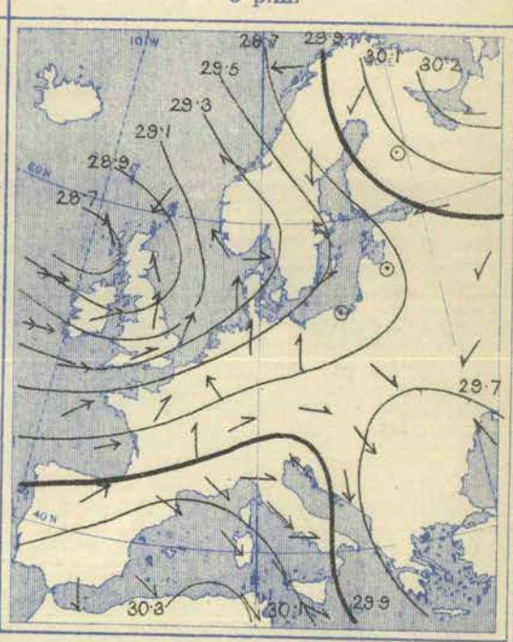


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in the extreme north of Europe, and also in many parts of Spain; very unsettled over Europe as a whole, but especially over the north-western countries, including the British Islands, where strong squalls and cold showers were very prevalent. Rain falling very generally over the north-western countries, sleet and hail in many places, and thunderstorms over England.

Temperature still changing fitfully. Morning readings highest, 58° at Brindisi, 56° at Algiers, 50° at Corunna; 47° at Lorient and Scilly. Lowest, −22° Fahr. at Archangel, +7° at Haparanda, and much below the freezing point over Lapland, Finland, and the north of Russia generally; 33° at Belfort, 37° at Nice, Paris, Oxford, Shields, Parsonstown, and Wick. Not touching 50° in our Islands (except in London) during the day, but reaching 49° at Jersey, 47° at Donaghadee and Roche's Point, and 46° at York. Falling fast again over the United Kingdom as night came on.

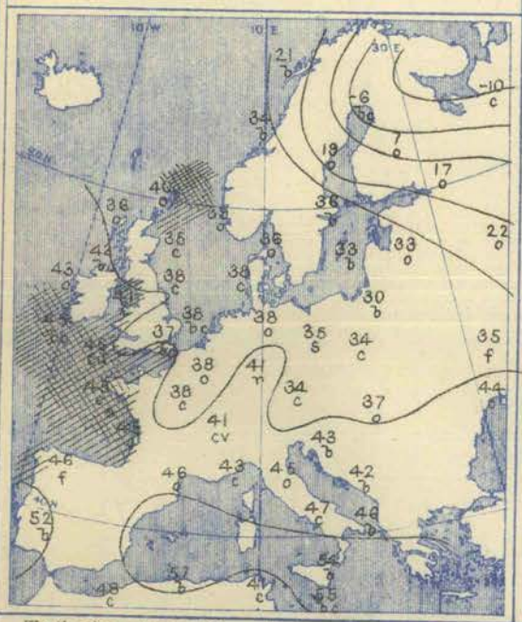
Wind (1) Westerly to Southerly over the British Islands and France, and blowing hard at the western stations, Easterly over northern Europe, and moderate to a gale in force; (2) North-Westerly over the Mediterranean, force varying from a moderate breeze to a strong gale; (3) very light and variable over south-eastern Europe. Very little change later, except over the Netherlands, where the Westerly gale moderated, and the wind backed to the Southward.

Barometer highest, (1) 30·5 ins. and more to 30·0 ins. over the north of Africa and the Spanish Peninsula; (2) 30·2 ins. and more to 30·0 ins. over the north of Russia and the eastern parts of Lapland and Finland. Lowest, (1) below 28·8 ins. in a new depression lying off the north-west of our Islands, and below 29·0 ins. in another depression lying over Denmark; (2) below 29·6 ins. in a shallower disturbance over Austria-Hungary, and below 29·8 ins. in a secondary system over the northern parts of Italy. Depression in the north-west spreading over Scotland later, and barometer rising over Ireland.

Friday, 5th March.

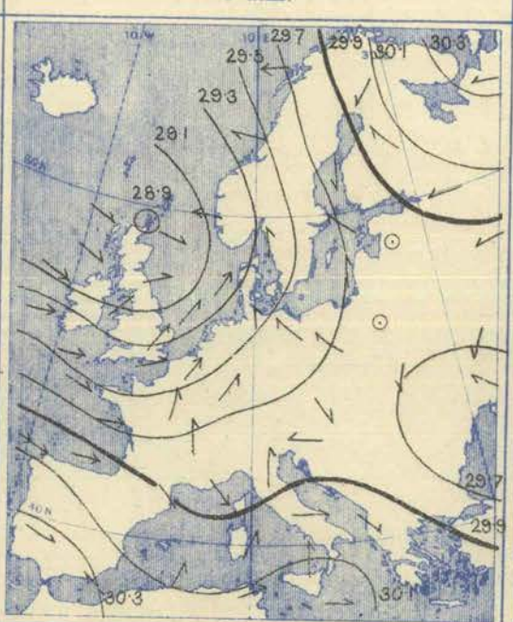
Temperature and Weather.

8 a.m.

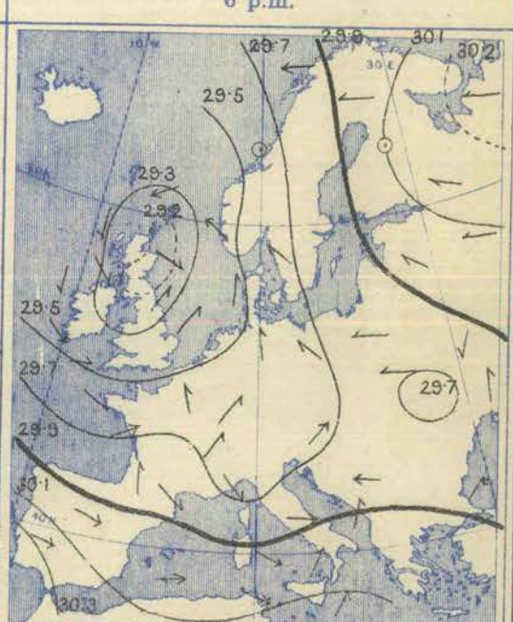


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still unsettled over the British Islands and their neighbourhood; rain, sleet, and hail showers reported in many places, and thunder at some stations. Fine and bright in the north-west of Norway on the one hand, and over the southern shores of the Mediterranean and the eastern shores of the Adriatic on the other. Rain falling later over the British Isles (chiefly in the west and north) and at several Continental stations; sleet and hail in many places, but sky bright over the east and south of England.

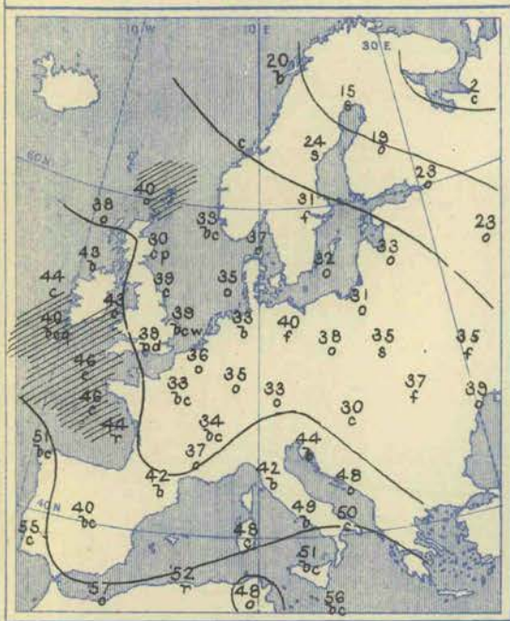
Temperature changing little and irregularly. Morning reading highest, 55° to 50° on the southern and western shores of the Mediterranean, 52° at Lisbon and 45° to 43° on most of the Atlantic coasts both of France and the British Isles. Lowest, −10° Fahr. at Archangel, −6° at Haparanda, +17° at St. Petersburg, and much below the freezing point over the central and northern parts of Russia, Finland, and the north of Scandinavia; 31° at Warsaw, 34° at Munich, 39° at Paris, 35° in the east and south of Scotland, 37° in London. Rising later to between 48° and 52° over our eastern counties, and to more than 60° in the south of Italy, but falling fast over the inland districts towards night.

Wind very strong from between North-West and West over the western parts of our Islands and the Bay of Biscay, South-Westerly and moderate over England and the greater part of France, South-Easterly to Southerly over Germany and the Baltic. A well-defined but small cyclonic circulation noticed over the northern parts of the Mediterranean. Northerly wind setting in over the western parts of our Islands later, and blowing very freshly.

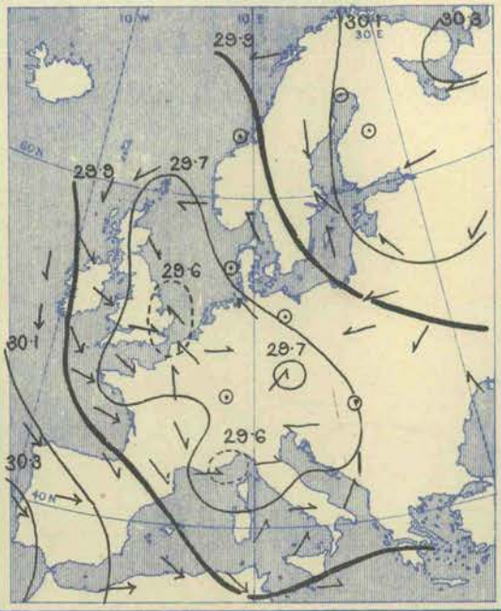
Barometer highest, 30·3 ins. and more to 30·0 ins. both over the Spanish Peninsula and the most northern parts of continental Europe. Lowest, 28·9 ins. and less to 29·0 ins. in a depression over Scotland and the north of Ireland; about 29·6 ins. in another over the Black Sea and south of Russia, and about 29·7 ins. in a third over the north-eastern part of the Mediterranean. Rising fast over the British Islands and north-western Europe, especially at the most western stations.

Saturday, 6th March.

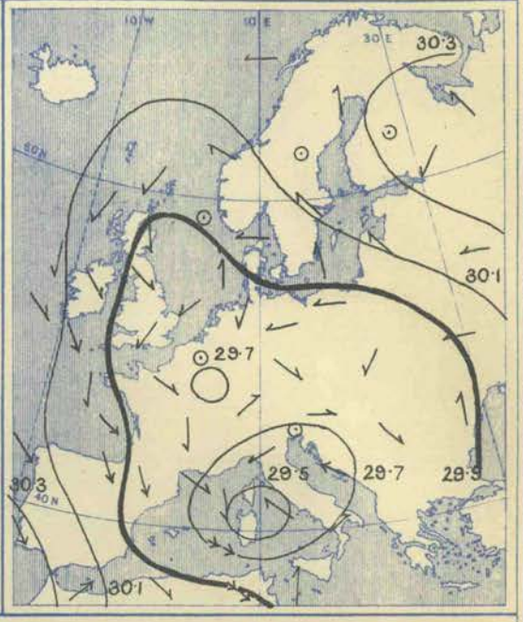
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Norway, Ireland, Spain, many parts of England, France, and the Mediterranean; dull elsewhere, with slight rain in many parts of the United Kingdom and at Karlstad, snow over northern Europe. Rain and snow later at many of the northern Continental stations, and over the north and east of the British Islands; rain over southern Europe, and a thunderstorm at Biarritz.

Temperature risen over northern and central Europe, inclined to fall in the west. Morning readings highest, 57° to 50° on the southern shores of the Mediterranean and on the Portuguese coast, 46° at Scilly and Valencia (Ireland), 43° at Holyhead, 40° in the north-east of Scotland. Lowest, 2° Fahr at Archangel; below the freezing point over Lapland, Finland, and the north of Russia, and very little above that value over France; not touching 50° in any part of our Islands later, excepting Prawle Point, but touching 54° at Perpignan, 61° at Lisbon and Brindisi, and 65° at Palermo.

Wind. Easterly to South-Easterly over the Baltic and northern Europe, but North-Westerly to Northerly over almost the whole of the British Islands, and not strong in any of these parts. North-Westerly and strong, however, over the Bay of Biscay, and a gale at Barcelona; South-Westerly, moderate, in Sicily and the south of Italy, very variable and light over France. The Northerly breeze spreading to our east coast later, but beginning to decrease in force.

Barometer highest, 30·3 ins. and more to 30·0 ins. over Spain, and 30·2 ins. and more over northern Europe. Lowest, below 29·7 ins. over the eastern half of Great Britain and many parts of southern and central Europe, and below 29·6 ins. over the east of England and the Gulf of Genoa. Rising steadily over western Europe later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria, and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week pressure was highest over the southern, lowest over the north-western and north-eastern countries, and the depressions which reached our western coasts from the Atlantic moved north-eastwards towards Scandinavia, and caused South-Westerly and Southerly gales, and high temperature on the western and northern coasts of the British Islands, and rain over north-western Europe generally.

After Monday there was an important change. Two high pressure systems were developed—one over south-western and the other over northern Europe. The depression which reached our shores now began to move more directly over England and the North Sea—first in the form of "V" shaped secondaries, but subsequently as a large and deep depression, which reached our western shores late on the 2nd, Lincolnshire by 8 a.m. on the 3rd, and Denmark by the following morning. The South to West to North-West gales which accompanied this system were especially severe over the southern parts of the British Islands, the Channel, the north of France, and the Netherlands. Rainfall was heavy, hail and snow fell in many places, and thunderstorms were very prevalent.

A new and large depression reached Scotland on Thursday (4th), but this began to fill up slowly, and eventually to move south-eastwards, and in its rear cold dry winds began to set in, first at our western stations and then to spread Eastwards.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 48.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from Mean for the Week.
EDINBURGH	11·3	− 6·0	15	− 8	SOUTHPORT	26·2	?	35	?
OSWALDKIRK (Yorkshire)	11·2	− 8·2	15	− 11	MANCHESTER (Oldham Road)	13·3*	?	17*	?
WORKSOP	16·8	− 1·4	22	− 3	COLWYN BAY	26·1	?	34	?
THURCASTON (Leicestershire)	17·5	− 0·4	23	− 2	NEWQUAY	19·4	− 5·2	26	− 8
MARGATE	28·5	+ 7·4	38	+ 9	TORQUAY	24·7*	+ 2·6	33*	+ 3
WESTBOURNE (Sussex)	25·0*	+ 0·5	33*	+ 1	GUERNSEY	22·0*	− 5·1	29*	− 8
BRIGHTON	23·0	− 0·8	30	− 2					
EASTBOURNE	18·6	− 3·7	24	− 7					

* The values at Westbourne, Manchester, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons Ltd. Lith. 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV. No. 10.] *Third Series.* WEEK ENDING SATURDAY, MARCH 13TH, 1897. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 56.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	50	31	44·5	35·5	39·8	1 above	7	− 1	23	−12	59	− 8	411	+15
	1. SCOTLAND, EAST	54	26	44·0	34·3	39·0	0 (average)	6	− 6	27	−11	72	−15	447	+21
	2. ENGLAND, N.E.	51	24	45·6	33·9	39·6	0 (average)	10	− 3	30	− 1	88	+ 4	354	−19
	3. ENGLAND, EAST	52	28	47·1	32·7	39·7	1 below	14	− 4	55	0	100	− 5	378	−48
	4. MIDLAND COUNTIES	53	27	47·0	33·0	39·8	0 (average)	14	− 3	34	0	108	− 3	384	−38
	5. ENGLAND, SOUTH	55	29	47·7	36·2	41·8	0 (average)	16	− 4	23	− 4	125	− 4	264	−76
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	48	30	45·0	36·6	40·7	0 (average)	8	− 4	20	− 7	73*	−27	315	+13
	7. ENGLAND, N.W.	53	28	45·9	35·9	40·8	0 (average)	11	− 2	23	− 3	88	− 5	289	−23
	8. ENGLAND, S.W.	52	27	47·8	37·3	42·4	0 (average)	23	+ 3	13	− 9	157*	− 2	189	−65
	9. IRELAND, NORTH	52	27	46·0	35·1	40·4	1 below	11	− 5	26	+ 3	103	−31	281	+18
	10. IRELAND, SOUTH	53	29	48·6	36·4	42·3	1 below	26	+ 3	16	− 1	202	0	199	− 2
	—CHANNEL ISLANDS	53	34	50·0	41·5	45·6	1 above	27	+ 3	1	− 8	257	+39	68	−47

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 56.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	8	1 less	47	− 4	7·4	− 4·0	16	− 2	21	− 3	100	+ 1	17	0
	1. SCOTLAND, EAST	5	8	4 more	40	+ 1	4·2	− 1·8	11	−11	14	−15	109	− 24	18	− 4
	2. ENGLAND, N.E.	4	4	0 (average)	44	+ 7	4·7	− 0·5	21	+ 2	30	+ 2	124	− 6	20	− 1
	3 ENGLAND, EAST	4	5	1 more	46	+ 9	5·8	+ 1·7	28	+ 5	35	+ 4	138	− 14	22	− 2
	4. MIDLAND COUNTIES	3	4	1 more	41	+ 6	6·1	+ 1·2	30	+10	38	+11	128	− 12	20	− 2
	5. ENGLAND, SOUTH	4	8	4 more	41	+ 6	7·5	+ 2·0	34	+10	43	+11	140	− 13	22	− 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	10	2 more	41	− 2	7·4	− 3·4	12	− 8	15	−12	121	− 1	20	0
	7. ENGLAND, N.W.	6	9	4 more	47	+ 8	6·1	0·0	21	− 4	26	− 6	107	− 22	18	− 3
	8. ENGLAND, S.W.	6	11	5 more	48	+ 8	10·1	+ 2·3	26	0	33	0	145	− 25	23	− 4
	9. IRELAND, NORTH	6	14	8 more	48	+ 3	7·3	+ 0·1	15	− 5	19	− 7	138	+ 3	22	0
	10. IRELAND, SOUTH	6	16	10 more	45	+ 3	8·9	+ 0·7	22	1	28	− 3	159	− 1	25	0
	—CHANNEL ISLANDS	6	11	6 more	55	+10	9·2	+ 2·4	26	− 3	33	− 5	148	− 47	22	− 7

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, Manchester and Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued in a very changeable condition generally. Rain fell frequently, especially in the west and north, but in the east and south there were considerable intervals of bright sunshine. Thunder and lightning occurred in many places during the latter part of the week.

Temperature differed very little from the mean value. The highest of the maxima, which were recorded about the middle of the period, ranged from 55° in England S. and 54° in England E. to 48° in Scotland W. The lowest of the minima occurred during the earlier half of the week, and ranged from 24° in England N.E. to 31° in Scotland N. and to 34° in the Channel Islands.

Rainfall was a little less than the mean in Scotland N., and just equal to it in England N.E., but in all other districts there was an excess—that in all the western and southern parts of England and the east of Scotland being considerable, and that in Ireland very large.

Bright Sunshine was deficient over the Kingdom as a whole, but exceeded the normal over all the eastern, central, and southern parts of England. The percentage of the possible duration ranged from 43° in England S. and 38° in the Midland counties to 19° in Ireland N., 15° in Scotland W., and to 14° in Scotland E.

Barometer and Wind.—Soon after the commencement of the period depressions began to skirt our western and northern coasts, causing fresh or strong Southerly or South-Easterly winds or gales in all the western and northern districts, and increasing Southerly winds elsewhere. During the night of the 11th a rather deep depression approached the Irish Sea from the south-westward, occasioning Westerly gales in the south-west, and strong South-Easterly gales in the north-east of Scotland. The system subsequently moved slowly northwards and north-westwards to the south-west of Scotland, and by the end of the period had filled up somewhat. The strong South-Easterly gale continued, however, without abatement in the north-east of Scotland.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 55 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	32	42·0	35·9	38·9	+ 0·9	0	22	5	0·37	−0·27	*	*	*	*
	Stornoway	48	31	43·7	34·6	39·0	− 0·2	5	26	6	1·36	+0·51	12·4	− 8·1	16	−12
	Wick	45	32	44·1	36·6	40·2	+ 1·4	6	19	4	0·36	−0·13	*	*	*	*
	Lairg Ⓢ	50	32	43·0	34·4	38·6	+ 1·3	3	27	4	0·94	+0·24	*	*	*	*
	Glencarron Ⓢ	48	31	45·3	33·2	39·1	+ 1·6	9	32	7	1·02	−0·42	*	*	*	*
	Fort Augustus Ⓢ	49	34	46·9	36·3	41·4	+ 2·3	14	22	6	0·43	−0·36	18·7	± 4·2	24	+ 5
	Fort William Ⓢ	49	35	46·4	37·3	41·7	+ 1·7	12	18	5	1·17	−0·32	17·7	− 1·0	23	− 2
1. SCOTLAND, E.	Nairn	54	31	46·3	34·1	40·0	+ 0·9	12	29	4	0·31	−0·12	*	*	*	*
	Aberdeen	45	34	42·7	37·0	39·8	+ 0·7	2	18	5	0·86	+0·36	10·7	−12·9	14	−18
	Braemar Ⓢ	42	30	40·2	32·3	36·1	+ 0·5	0	41	6	2·04	+1·46	5·5†	−17·4†	7†	−24†
	Ochtertyre Ⓢ	48	29	44·3	33·6	38·8	0·0	6	30	6	0·87	+0·27	*	*	*	*
	Leith Ⓢ	49	31	46·3	35·6	40·8	+ 0·3	12	24	5	0·29	0·00	*	*	*	*
	Marchmont Ⓢ	47	26	44·3	32·9	38·4	+ 0·1	6	32	6	0·69	+0·17	16·8	− 4·5	21	− 7
2. ENGLAND, N.E.	Alnwick Castle	50	24	44·6	33·3	38·8	− 0·4	7	31	5	0·45	−0·04	*	*	*	*
	Durham	50	26	45·4	32·2	38·6	− 0·6	10	35	7	0·44	0·00	21·5	− 0·5	27	− 2
	Shields	50	31	46·0	34·9	40·3	+ 0·2	11	27	5	0·45	+0·09	*	*	*	*
	Scarborough Ⓜ	49	33	45·3	34·5	39·7	− 0·7	9	27	2	0·32	−0·06	*	*	*	*
	York	51	28	47·0	32·0	39·3	− 1·1	14	37	4	0·38	+0·03	24·5	+3·7	31	+ 4
	Spurn Head	48	34	45·4	36·4	40·8	+ 0·9	10	21	3	0·35	+0·10	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	52	28	47·7	31·8	39·5	− 0·4	16	38	6	0·33	−0·03	28·6	+ 5·6	36	+ 6
	Yarmouth	48	33	44·0	34·9	39·3	− 0·3	6	25	4	0·49	+0·13	*	*	*	*
	Geldeston	51	28	47·6	33·6	40·4	− 0·1	16	32	5	0·48	+0·18	28·0	+ 3·8	35	+ 3
	Cambridge	52	28	49·1	31·0	39·8	− 1·0	20	42	2	0·27	−0·01	24·2	+ 1·0	31	0
	Rothamsted	50	28	47·0	32·1	39·3	− 0·7	14	36	5	0·78	+0·41	29·9	+ 6·9	38	+ 7
4. MIDLAND COUNTIES	Harrogate Ⓜ	47	27	44·3	33·2	38·6	− 1·0	6	31	4	0·52	?	25·1†	?	32†	?
	Bawtry (Hesley Hall)	52	28	47·9	33·0	40·2	− 0·1	17	34	4	0·27	−0·03	*	*	*	*
	Loughborough	53	27	48·9	33·0	40·7	− 0·1	19	35	2	0·18	−0·14	*	*	*	*
	Stamford (Duddington)	52	27	47·9	32·7	40·1	− 0·5	17	35	2	0·31	+0·02	*	*	*	*
	Cheadle Ⓜ	49	30	45·3	32·5	38·7	− 0·2	9	34	3	0·48	0·00	*	*	*	*
	Shirley (near Solihull)	49	27	46·4	32·8	39·4	− 1·1	12	34	5	0·49	?	*	*	*	*
	Churchstoke Ⓜ	50	30	46·6	33·1	39·7	− 0·2	13	33	4	0·35	+0·03	32·1	+10·1	41	+12
	Hereford Ⓜ	51	29	48·4	34·7	41·4	+ 0·4	18	29	4	0·45	0·00	*	*	*	*
	Cirencester	49	27	46·9	32·0	39·2	− 0·6	14	37	4	0·39	−0·04	26·7	+ 3·6	34	+ 3
	Oxford	49	29	47·6	33·3	40·2	− 0·6	16	33	2	0·34	+0·02	29·1	+ 6·6	37	+ 8
5. ENGLAND, S.	London	52	30	47·7	34·3	40·8	− 1·0	16	30	4	0·49	+0·19	16·6†	+ 1·8†	21†	+ 1†
	North Foreland	51	36	47·0	37·4	42·1	+ 1·2	20	13	3	0·71	?	*	*	*	*
	Dungeness	51	31	47·0	36·7	41·7	+ 0·9	14	21	3	0·46	+0·12	*	*	*	*
	Hastings (St. Leonards)	50	34	47·4	36·1	41·6	+ 0·2	15	23	3	0·79	+0·39	42·3	+15·0	54	+19
	Southampton	55	29	49·8	35·6	42·5	0·0	30	18	5	1·05	+0·61	25·8	+ 0·8	33	0
	Hurst Castle	52	34	48·1	38·6	43·2	+ 1·5	23	10	4	1·09	+0·71	*	*	*	*
	Stowell Ⓜ	49	30	46·6	34·6	40·4	− 0·8	13	28	6	0·96	+0·46	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	48	30	45·6	37·3	41·3	+ 0·4	10	18	6	1·34	−0·03	*	*	*	*
	Glasgow	47	34	44·7	36·3	40·4	+ 0·8	8	21	6	0·45	−0·07	7·8	− 8·2	10	−12
	Ardrossan	48	34	45·0	37·0	40·9	+ 0·2	8	19	5	0·49	+0·01	*	*	*	*
	Glenlee Ⓢ	48	31	44·3	34·6	39·3	− 0·3	6	26	6	1·68	+0·83	*	*	*	*
	Douglas (Isle of Man)	48	34	45·6	37·7	41·5	+ 0·4	10	17	5	0·97	+0·39	15·3	− 9·3	19	−13
7. ENGLAND, N.W.	Stonyhurst	47	31	43·6	34·2	38·8	− 0·9	4	28	6	1·19	+0·46	14·8	− 5·3	19	− 8
	Blackpool Ⓜ	51	28	46·5	36·3	41·3	+ 1·2	13	22	6	0·88	+0·44	19·7	− 0·3	25	− 2
	Manchester (Prestwich)	49	30	46·0	33·3	39·5	− 0·3	11	32	4	0·61	+0·13	16·0	?	20	?
	Liverpool Obsy. (Bidston)	49	32	45·4	36·1	40·6	− 1·0	10	22	6	0·41	+0·08	*	*	*	*
	Llandudno Ⓜ	53	35	48·0	37·7	42·7	+ 0·3	23	12	5	0·84	+0·44	*	*	*	*
	Holyhead	47	36	45·9	38·0	41·8	− 0·6	11	16	6	1·49	+1·01	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	27	48·4	32·1	40·0	− 1·8	18	37	6	1·04	+0·74	*	*	*	*
	Pembroke	47	35	46·1	40·4	43·2	+ 0·5	15	4	6	1·13	+0·63	31·4	+ 4·8	40	+ 6
	Clifton	48	32	46·6	36·9	41·6	− 0·4	13	20	4	0·61	+0·14	*	*	*	*
	Arlington (N. Devon)	49	33	47·1	36·1	41·4	+ 0·6	14	23	5	1·14	+0·33	*	*	*	*
	Cullompton Ⓜ	51	33	49·3	36·2	42·6	− 0·4	29	16	6	1·35	+0·73	21·5	− 2·7	27	− 5
	Falmouth	51	37	48·8	39·2	43·9	+ 0·1	25	8	7	0·95	+0·16	25·6	− 1·4	32	− 3
	Plymouth	52	34	49·0	38·8	43·7	+ 0·5	25	9	6	1·28	+0·73	26·5	− 0·2	33	− 2
	Prawle Point	50	35	47·3	39·0	43·0	+ 0·6	20	8	6	1·01	+0·61	*	*	*	*
9. IRELAND, N.	Malin Head	50	34	45·1	36·7	40·8	− 1·4	9	20	6	0·89	?	*	*	*	*
	Londonderry	52	31	46·5	35·9	41·0	− 0·9	13	23	7	1·35	+0·80	*	*	*	*
	Edenfel (Omagh)	50	28	44·9	34·0	39·3	− 0·7	8	29	5	1·77	+1·25	*	*	*	*
	Belmullet	49	32	46·6	36·7	41·5	− 2·1	13	21	6	1·06	+0·18	*	*	*	*
	Markree Castle	51	27	46·5	34·1	40·1	− 1·0	13	29	7	2·58	+1·94	12·8	− 7·9	16	−11
	Armagh	52	28	46·6	34·7	40·5	− 0·1	13	28	6	1·17	+0·66	17·1	− 2·9	22	− 4
	Donaghadee	50	32	46·3	36·6	41·3	− 0·4	12	21	6	0·94	+0·52	*	*	*	*
	Edgeworthstown	52	28	45·6	32·0	38·6	− 2·0	10	36	7	1·44	+0·87	*	*	*	*
10 IRELAND, S.	Dublin	53	33	47·5	37·0	42·1	− 0·8	22	14	7	1·28	+0·85	16·6	− 6·7	21	−10
	Parsonstown	53	29	48·9	34·0	41·2	− 0·4	19	31	6	1·35	+0·86	22·6	+ 0·6	29	+ 1
	Kilkenny	52	30	48·7	34·1	41·2	− 1·6	19	31	5	1·26	+0·79	*	*	*	*
	Roche's Point	52	36	49·0	39·3	44·0	+ 0·1	25	8	6	1·52	+0·73	*	*	*	*
	Valencia	53	32	48·7	37·7	43·0	− 2·1	25	12	7	2·18	+1·23	27·1	+ 2·1	34	+ 1
	Killarney	53	30	48·6	36·1	42·2	− 2·2	26	17	6	1·86	?	*	*	*	*
	Foynes	?	34	?	37·2	?	?	?	?	7	1·75	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	39	50·3	42·3	46·2	+ 0·7	29	0	6	1·04	+0·51	23·7	?	30	?
	Jersey	53	34	49·6	40·6	45·0	+ 0·7	27	4	6	1·11	+0·60	25·0	− 5·0	32	− 8

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

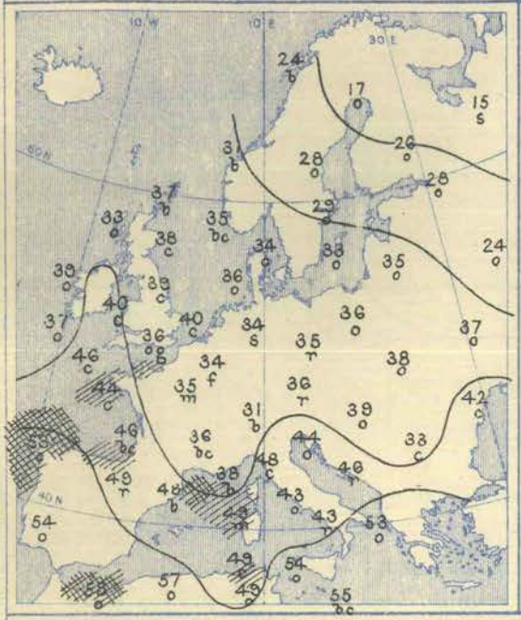
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 7th March.

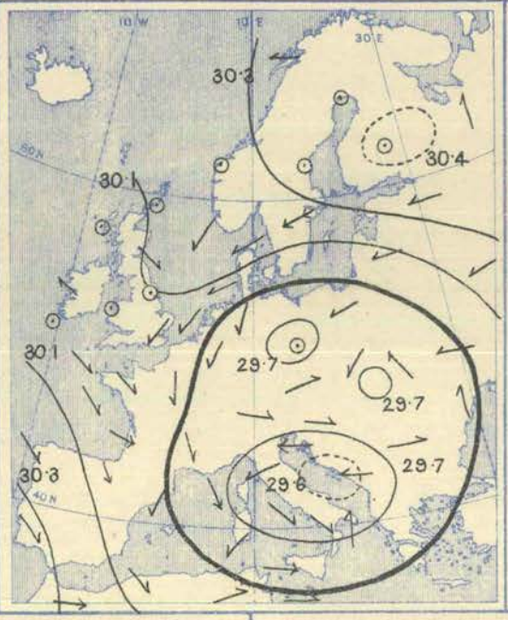
Temperature and Weather.

8 a.m.

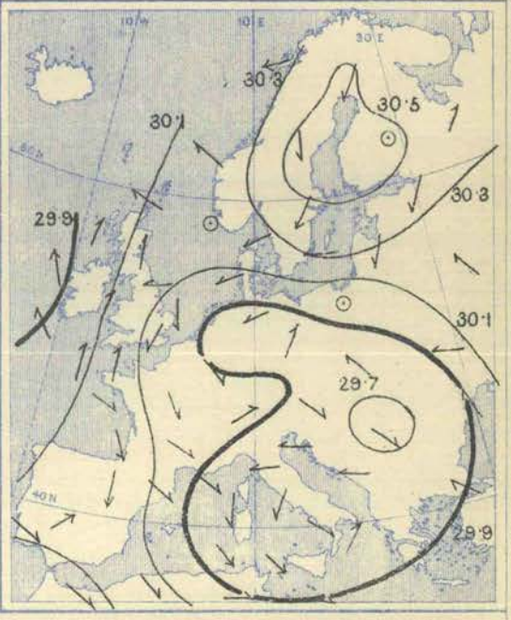


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull in most parts of our Islands, but fine in the north of Ireland and at several of the western stations in Great Britain. Dull in most of the Continental countries, with rain or snow in several parts of Denmark and Germany, and with rain at Rome and Biarritz. Fine in the west of Norway, and also in many parts of France. Sky clearing later in the east of our Islands, but rain falling in the west, as well as at several of the Continental stations.

Temperature fallen a little in most of the western countries, but risen elsewhere. Morning readings highest, 58° at Nemours and Oram, 57° at Algiers, and 55° at Corunna and Malta; above 50° at several of the Mediterranean and Spanish coast stations. Lowest, 15° at Archangel, 17° at Haparanda, 20° at Kuopio, and 22° at Uleaborg; below the freezing point over northern Europe generally, as well as in south Germany and the east of France. Daily maxima below 45° in many parts of our Islands, and below 50° at all stations excepting Prawle Point. Thermometer exceeding 55° over southern Europe as a whole, and reaching 61° at Palermo and Malta. Sharp frost occurring over the central parts of England at night.

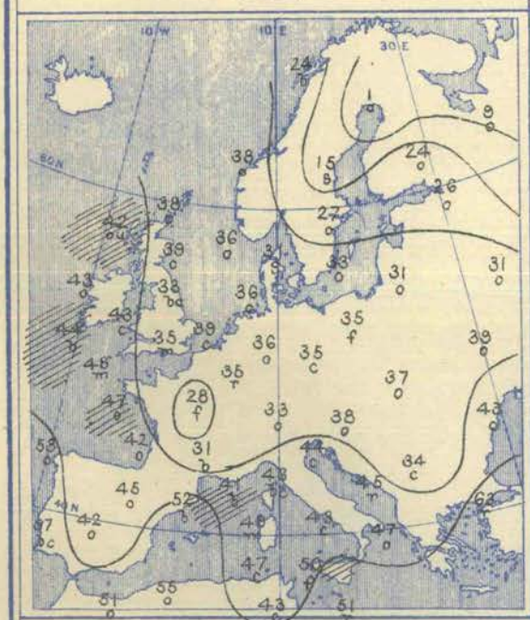
Wind Easterly or North-Easterly over Denmark, the Baltic, and the south of Scandinavia; North-Easterly or Northerly in most parts of England and Ireland; North-Westerly over France and the Spanish Peninsula. Calm over the northern parts of Finland and Scandinavia, light and variable in Austria and Italy. Subsequently shifting to the Southward or South-Eastward in all the more western and northern parts of our Islands, and freshening in the west of Ireland.

Barometer highest, 30·42 ins. at Kuopio; 30·1 ins. and upwards in an anticyclone embracing nearly the whole of northern Europe with the northern part of the North Sea, as well as in another system over the Spanish Peninsula and the Bay of Biscay. Lowest, 29·6 ins. and less in a depression over the central part of the Adriatic; 29·7 ins. and less in another disturbance over north Germany. Former depression subsequently moving eastwards, but latter system dispersing; new and larger disturbance appearing off our own western coasts at night.

Monday, 8th March.

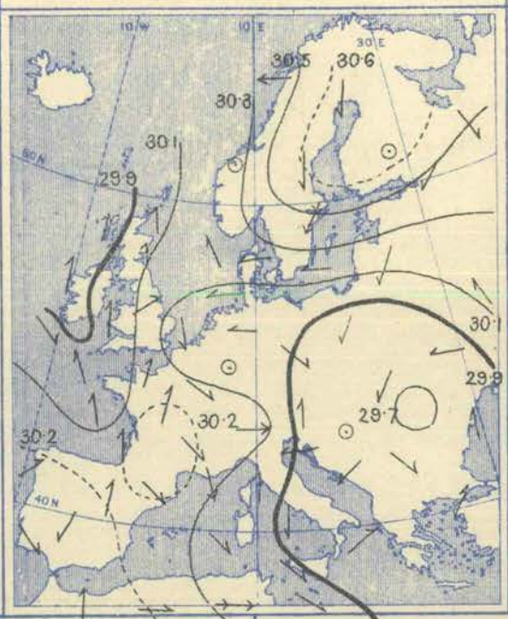
Temperature and Weather.

8 a.m.

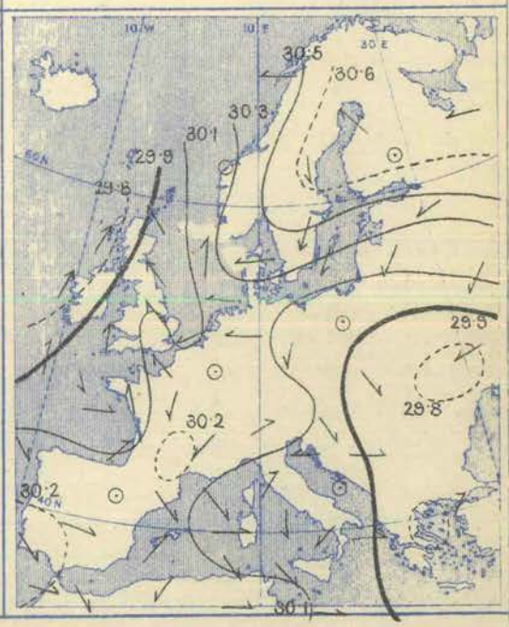


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull in the west and north of our Islands generally, with rain at Parsonstown and Pembroke, but fine in the extreme south of Ireland; foggy over central England; fair on our eastern and south-eastern coasts. Cloudy or dull at most of the Continental stations, with fog over north Germany and central France, rain at Breslau, and snow at Hernösand, Skagen, and Memel. Rain falling later in the west and north of our Islands generally, as well as in many parts of France and Germany; solar halo seen at Oxford.

Temperature risen in the west and north of our Islands, but fallen in most other parts of Europe. Morning readings highest, 55° at Algiers, 53° at Corunna and Constantinople, and 52° at Barcelona; above 45° on our own extreme south-west coasts. Lowest, 1° at Haparanda, 9° at Archangel, 15° at Hernösand, and 19° at Uleaborg; below the freezing point in most parts of Russia and Scandinavia, and also in the central parts of England. Daily maxima below 45° at many of our own northern, eastern, and south-eastern stations, but thermometer exceeding 50° in the south of Ireland; exceeding 55° in Italy and the south of France, and exceeding 60° over Spain. Frost occurring in the south-east of England at night.

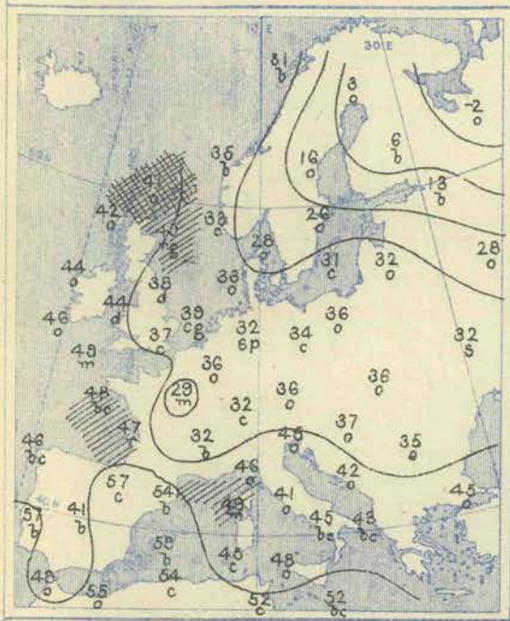
Wind light to fresh from the Southward or South-Eastward over the west and north of our Islands generally, and also in the west of France, but North-Westerly in the south of Ireland. Easterly or North-Easterly over the northern parts of the Continent, with a gale at Stockholm. Northerly or North-Westerly on the east and south-east coasts of England; Westerly or North-Westerly over Germany and Austria. Variable over Italy and the Spanish Peninsula; North-Westerly in the extreme south of France. Subsequently increasing to a gale from the Southward in some parts of the Scotch coasts; no important change occurring elsewhere.

Barometer highest, 30·6 ins. and upwards over the Gulf of Bothnia and the north of Finland; 30·2 ins. and upwards in an anticyclone covering the whole of Scandinavia and northern Russia, as well as in another system over Spain and Morocco. Lowest, 29·8 ins. and less in a "V" shaped depression over our own extreme west coasts. Latter system spreading eastwards later; new disturbances beginning to approach our west coasts.

Tuesday, 9th March.

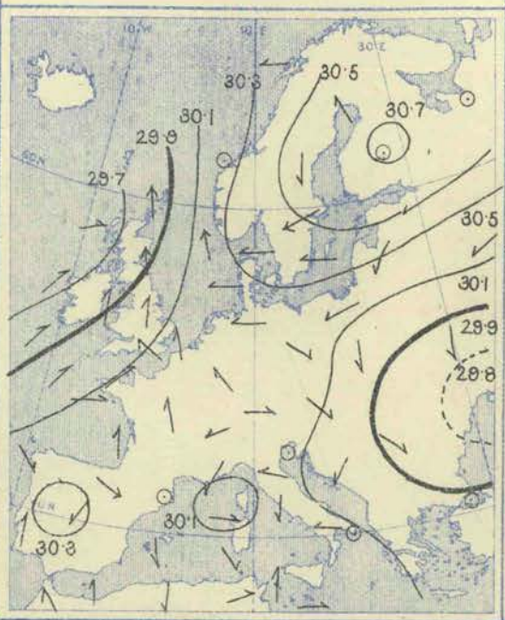
Temperature and Weather.

8 a.m.

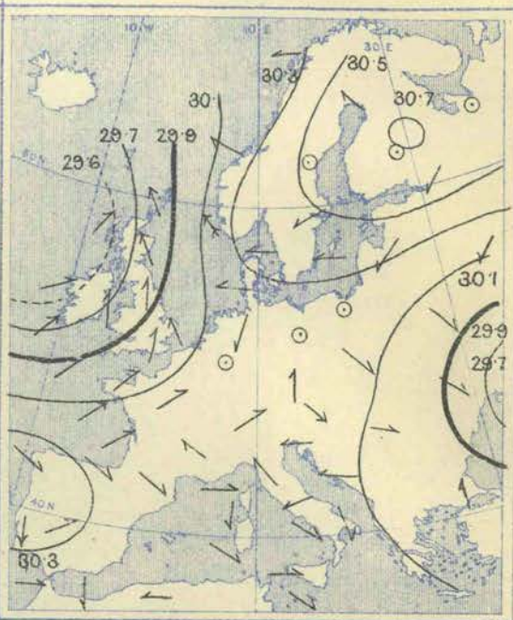


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull in all the more western and northern parts of the United Kingdom, with mist and rain in many places; fair or fine in the south-east of England. Dull and unsettled over a considerable portion of the Continent, with snow in several parts of Denmark, north Germany, and the south of Russia. Fine and bright over Finland and the west of Norway, as well as over the Spanish Peninsula and the southern parts of France and Italy. Rain falling later over the whole of our Islands—heavily in the extreme north-west-where thunder and lightning occurred. Snow reported in some parts of Austria.

Temperature risen in our Islands, and also in the north of Scandinavia; fallen in Russia and Denmark. Morning readings highest, 55° at Palma, 54° at Barcelona and Algiers, and 52° at Malta and Sfax; above 45° on our own south-west coasts. Lowest, −2° Fahr. at Archangel, +3° at Haparanda and Uleaborg, 6° at Kuopio, 13° at St. Petersburg; below the freezing point over northern Europe generally. Rising during day to 50° and upwards at several of our own western stations, and to 54° at Nairn; exceeding 55° over Italy and the west and south of France, and exceeding 60° over the Spanish Peninsula.

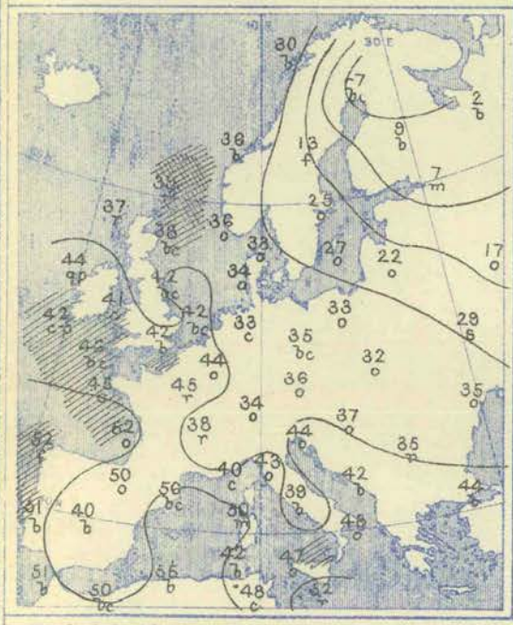
Wind Southerly in the west and north of our Islands, and strong in force over the Irish Sea and east of Scotland. Light to moderate from the South-Eastward over the greater part of England. Easterly over northern Europe generally, but Westerly over the greater part of Germany and Austria, as well as in the west of France. Variable in Italy and the south of France; Easterly (North-East to South-East) over the Spanish Peninsula. Subsequently veering to the South-Westward in the south of our Islands. No important change occurring elsewhere.

Barometer highest, 30·72 ins. at Kuopio; 30·2 ins. and upwards in an anticyclone embracing the whole of northern Europe, and also in another system extending from Spain and Algeria over France and western Germany. Lowest, 29·7 ins. and less in a depression off the north-west of our Islands; 29·8 ins. and less in another system over the south of Russia. New depression appearing later off our north-west coasts, and barometer falling over western Europe generally.

Wednesday, 10th March.

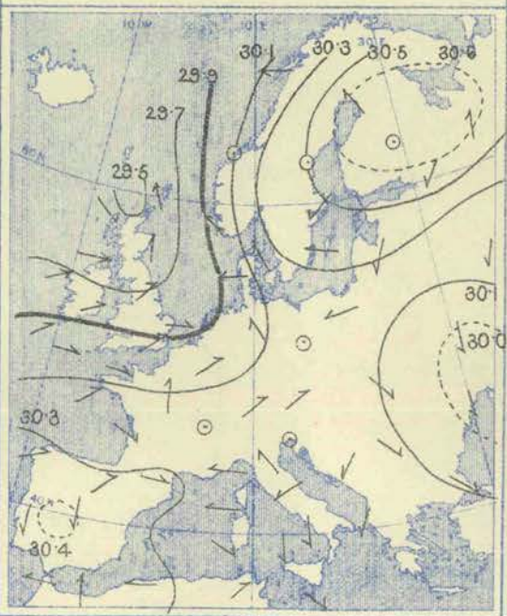
Temperature and Weather.

8 a.m.

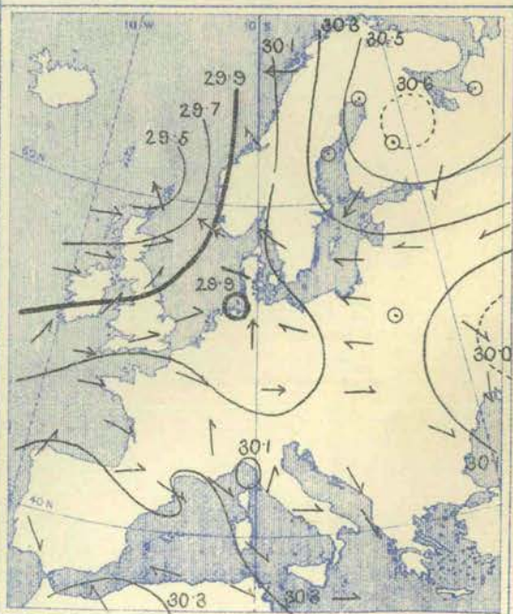


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of the United Kingdom, but showery in the west of Ireland, and rainy in the north of Scotland. Dull over a considerable portion of the Continent, with rain at several of the French stations, and also at the Helder, Wiesbaden, Bilbao, and Malta; snow falling at Karlstad and Faerder, as well as at Kiev and Kharkov. Fine over the northern parts of Russia and Scandinavia, and also over the Mediterranean and the greater part of the Spanish Peninsula. Showers of rain, hail, or sleet falling later in most parts of our Islands; thunderstorms occurring in London and at Dungeness.

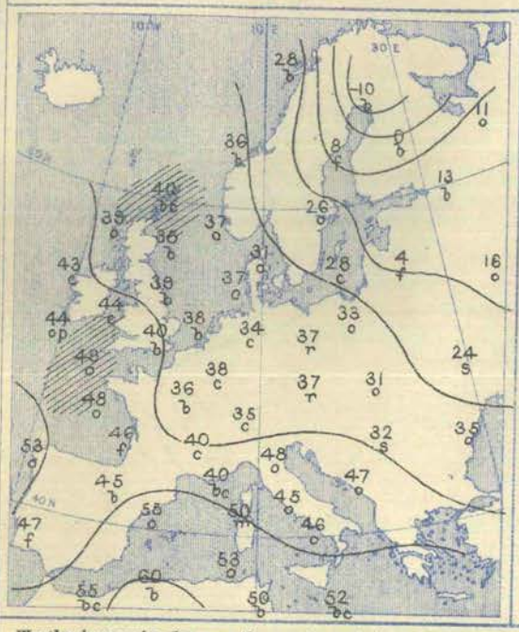
Temperature fallen in the west and north of our Islands, as well as in Sweden and Russia, but risen elsewhere. Morning readings highest, 58° at Barcelona, 55° at Algiers, and 52° at Rochefort, Corunna, and Malta. Lowest, −7° Fahr. at Haparanda, +2° at Archangel and Uleaborg, and 7° at St. Petersburg; below the freezing point in most parts of Russia and Scandinavia. Rising later to 50° and upwards over the central and southern parts of England generally, to 55° and upwards in the west and south of France, and to 60° and upwards over the Spanish Peninsula. Frost occurring in many parts of our Islands at night.

Wind light to fresh from the Westward or South-Westward over the greater part of our Islands and France, but strong to a gale from the Southward in the north of Scotland. South-Easterly on the eastern shores of the North Sea, with a gale at Skudesnaes; Easterly or North-Easterly over northern Russia and the Baltic, calm over the northern parts of Sweden. Variable in Germany, North-Westerly in Austria, Northerly or North-Easterly over the greater part of southern Europe. No important change occurring during day.

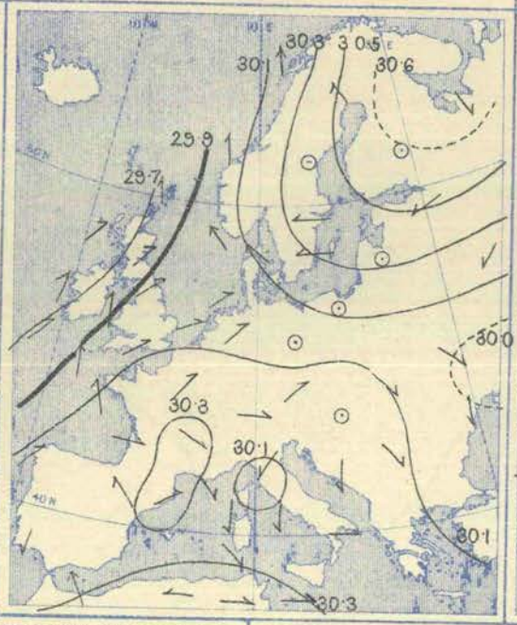
Barometer highest, 30·6 ins. and upwards over the extreme northern parts of Russia; 30·3 ins. and upwards in an anticyclone lying over northern Europe generally, and also in another system over Algeria and the Spanish Peninsula. Lowest, 29·4 ins. and less in a well-marked depression off the north of Scotland; 30·0 ins. and less in a large shallow area over the south of Russia. Depression in north moving away later to the northward and barometer rising in most parts of our Islands.

Thursday, 11th March.

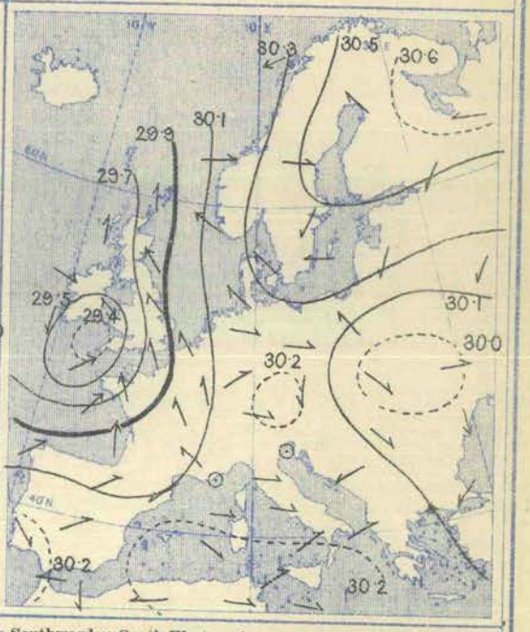
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands, France and the Netherlands, but dull on our own extreme west and south-west coasts, with rain in the south of Ireland. Fine and bright over Finland and the northern parts of Scandinavia, but dull over all the more central and eastern parts of Europe, with snow or rain in many places; dull also in Spain and Italy, with rain at Florence. Rain falling later over the whole of England, Ireland, and the neighbouring parts of the Continent—heavily at many of the western stations in our Islands and France. Solar halo seen at Oxford, and a lunar halo at Stornoway.

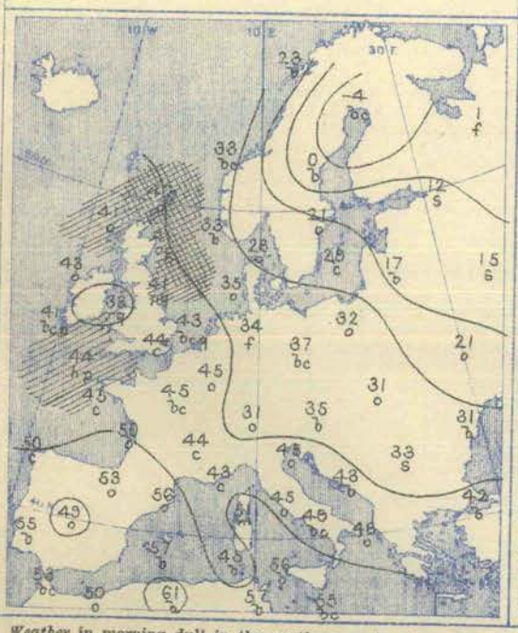
Temperature fallen in most places. Morning readings highest, 60° at Algiers, 55° at Barcelona, and 53° at Corunna and Cagliari. Lowest, −10° Fahr. at Haparanda, 0° zero at Kuopio, +7° at Ulcaborg, and 8° at Hernösand; below the freezing point over northern and eastern Europe generally, and very little above it in some parts of northern and eastern England. Rising during day to 50° or slightly above it at many of the English stations, to 60° and upwards over the Spanish Peninsula and the southern parts of France and Italy, and to 73° at San Fernando.

Wind light to moderate from the Southward or South-Westward over our Islands, the Netherlands, and the north of France. Easterly over western Russia, the Baltic, Denmark, and the south of Scandinavia; strong from the South-Eastward or Southward in the west of Norway, calm over the northern parts of Sweden. Light and variable over Germany, Austria, and the south of Russia; Northerly to Westerly in Italy, variable over Spain and the south of France. Subsequently backing to the South-Eastward over England, and increasing to a strong breeze or moderate gale.

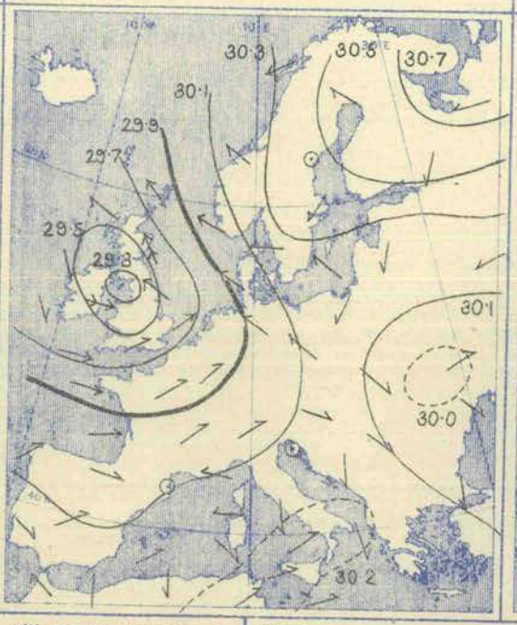
Barometer highest, 30·61 ins. at Archangel; 30·1 ins. and upwards in an anticyclone covering the greater part of northern Europe; 30·2 ins. and upwards in another system extending from Algeria and the Mediterranean over Spain, France, and south Germany. Lowest, 29·7 ins. and less in a large area lying to the westward of our Islands. Well marked depression advancing later over our Islands from the south-westward, and barometer falling briskly over England.

Friday, 12th March.

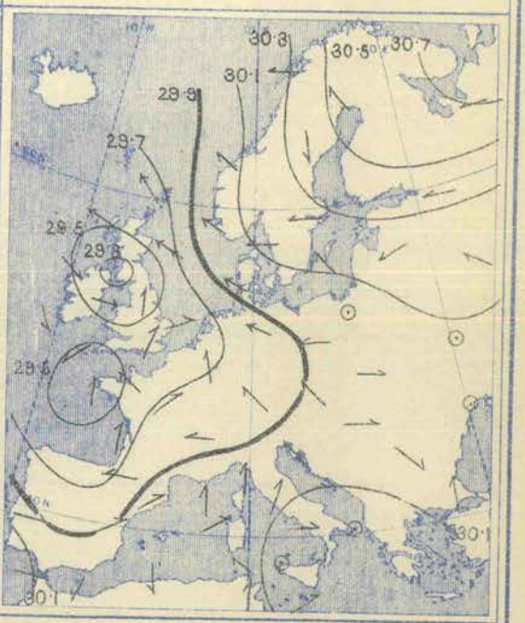
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull in the northern parts of our Islands, with rain on our north-west coasts; showery in the south, with hail at Scilly. Fine at many of the Scandinavian stations, and also in some parts of Germany, Austria, and southern Italy; dull in most other parts of the Continent, with fog in places, rain at Memel and the Helder, and snow at several of the Russian stations, as well as at Karlstad. Rain falling later in most parts of western Europe—heavily in France; solar and lunar halos seen in the south of England, and thunderstorms occurring at the North Foreland and Rochefort.

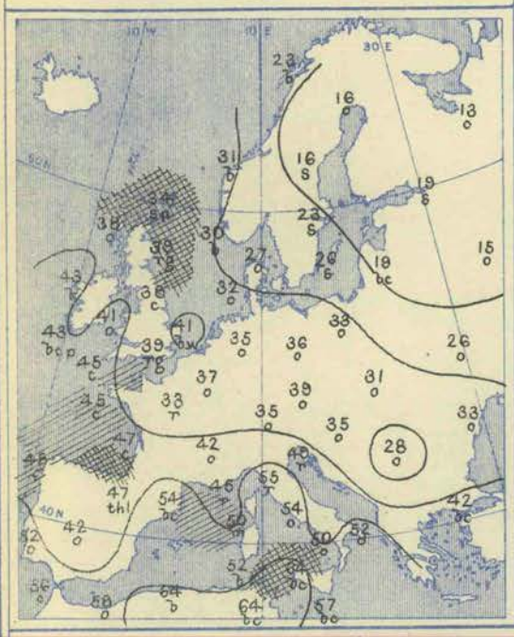
Temperature risen in the north and east of our Islands, and also over France and Spain; fallen in most other localities. Morning readings highest, 61° at Algiers, 58° at Oporto, and 57° at Palma and Sfax. Lowest, −4° Fahr. at Haparanda, 0° zero at Hernösand, +1° at Archangel, and 11° at Helsingfors. Below the freezing point over northern and eastern Europe generally. Daily maxima below 45° in the north of our Islands, but touching 50° or more at some of our southern stations. Thermometer exceeding 60° over the Spanish Peninsula and the southern parts of France and Italy. Sharp frost over central England at night.

Wind moderate to strong from the Westward on our western and southern coasts and over the Bay of Biscay, Easterly or North-Easterly over northern Europe generally, and South-Easterly on our own northern coasts, with a gale in the north-east of Scotland. Northerly or North-Westerly in the south of Russia; light and variable over Italy, Spain, and the south of France. Subsequently backing to the South-Westward in the south-east of England, and to the Southward in France; shifting to North-East at Scilly.

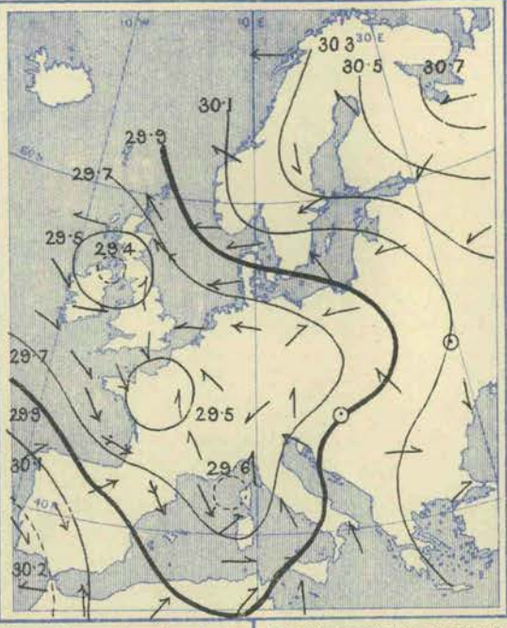
Barometer highest, 30·7 ins. and upwards in the extreme north of Russia; 30·2 ins. and upwards in an anticyclone embracing the greater part of northern Europe, and also in another system lying over Tunis and southern Italy. Lowest, 29·3 ins. and less in a well-marked depression having its centre over the Irish Sea; 30·0 ins. and less in a shallow area over the south of Russia. Depression subsequently moving very slowly north-westwards, but new disturbance advancing eastwards to the mouth of the English Channel.

Saturday, 13th March.

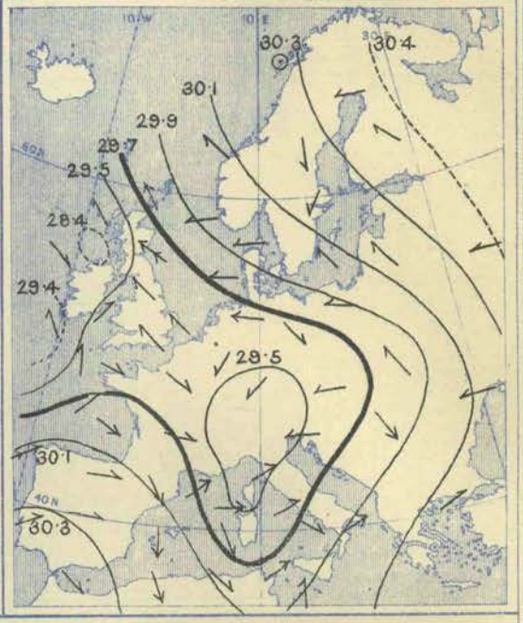
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine on our own south-west coasts, as well as in the north and east of England and the west of Norway. Cloudy or dull in nearly all other parts of Europe, with rain in Scotland, as well as in the south-east of England and many parts of France and northern Italy; thunderstorm reported at Biarritz. Snow falling over Sweden and the Gulf of Finland. Some improvement taking place later in the south-east of England, but rain falling in all the more western and northern parts of our Islands, as well as over France and the Spanish Peninsula.

Temperature fallen generally, but risen over Sweden and northern Russia, as well as in Italy and the south of France. Morning readings highest, 64° at Palermo, Algiers, and La Calle, 58° at Oran, and 57° at Malta. Lowest, 13° at Archangel, 15° at Moscow, and 16° at Haparanda and Hernösand; below the freezing point over northern and eastern Europe generally, and very little above it over central England. Daily maxima below 45° at many of our own northern and eastern stations, but thermometer reaching 50° or more in our central and southern districts; exceeding 55° over southern Europe generally.

Wind moderate from the North-Westward or Westward on our western coasts, and strong to a gale from the same quarters in the west of France. Moderate to strong from the Eastward over northern Europe generally, and strong to a gale from the South-Eastward in the north of Scotland. Calm or variable over Austria and the south of Russia; Southerly or South-Easterly in Italy; variable in the south of Spain. Subsequently backing to the Southward or South-Eastward on our own south-west coasts, and increasing to a fresh gale at night.

Barometer highest, 30·7 ins. and upwards in the extreme north of Russia; 30·1 ins. and upwards in an anticyclone embracing nearly the whole of Russia and Scandinavia, as well as in another system over the south-western parts of the Spanish Peninsula. Lowest, 29·4 ins. and less in a depression off the south-west of Scotland; 29·5 ins. and less in another disturbance over the north of France; 29·6 ins. and less in two other systems—one lying over north Germany, and the other over the Gulf of Genoa. Scotch depression subsequently moving north-westwards, and French disturbance passing eastwards and dispersing, but new cyclonic system approaching our south-west coasts in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Throughout this period the barometer was highest over northern Europe, but high also over the Spanish Peninsula. Early in the week the two systems were united by a "col" stretching across the more western countries, but, under the influence of some large depressions which advanced from the Atlantic, the "col" soon gave way, and for the greater part of the time the conditions over western Europe were purely cyclonic. The earlier depressions moved in a northerly direction along our extreme western coasts, but later on the disturbances advanced more directly across our Islands, the most important of these being (1) a rather deep system which advanced north-eastward over Wales on the 11th, and which afterwards moved away to the westward of Scotland; and (2) a shallower disturbance which passed across the north of France between the 12th and 13th, and which afterwards travelled on to Switzerland. Each of these disturbances occasioned heavy falls of rain in our western districts, and less decided falls in most other parts of western Europe, with gales on many parts of our coasts. The South-Easterly gale, which set in on the north-east coasts of Scotland on the night of the 11th, was severe and prolonged, and occasioned an extremely high sea in that neighbourhood.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 56.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
EDINBURGH	12·1	− 6·6	15	−10	EASTBOURNE	43·9	+18·9	56	+22
OSWALDKIRK (Yorkshire)	26·2	+ 4·2	33	+ 4	SOUTHPORT	24·7	?	31	?
WORKSOP	31·3	+11·2	40	+13	COLWYN BAY	27·2	?	34	?
THURCASTON (Leicestershire)	34·4	+15·1	44	+18	NEWQUAY				
MARGATE	30·4	+ 7·0	38	+ 8	TORQUAY	24·7*	− 0·3	31*	− 2
WESTBOURNE (Sussex)	37·2*	+10·0	47*	+12	GUERNSEY	29·0*	− 0·8	37*	− 2
BRIGHTON	40·7	+14·9	51	+17					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV. No. 11.] *Third Series.* WEEK ENDING SATURDAY, MARCH 20TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 62.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week: Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897: Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	49	29	43·7	35·8	39·7	1 above	5	− 4	23	−12	64	−12	434	+ 3
	1. SCOTLAND, EAST	54	29	45·3	35·3	40·2	1 above	9	− 4	25	−12	81	−19	472	+ 9
	2. ENGLAND, N.E.	53	33	47·9	38·1	42·9	2 above	23	+ 8	11	−20	111	+12	365	− 39
	3. ENGLAND, EAST	58	33	50·8	39·1	44·8	4 above	32	+13	8	−26	132	+ 8	386	− 74
	4. MIDLAND COUNTIES	58	33	51·0	38·4	44·5	3 above	33	+13	10	−24	141	+10	394	− 62
	5. ENGLAND, SOUTH	60	35	51·8	41·8	46·6	4 above	33	+12	1	−23	158	+ 8	265	−192
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	53	34	46·8	38·3	42·4	2 above	18	+ 5	10	−17	91	−22	325	− 4
	7. ENGLAND, N.W.	55	35	49·0	39·6	44·2	2 above	25	+11	7	−19	113	+ 6	296	− 42
	8. ENGLAND, S.W.	58	31	51·2	40·9	45·9	3 above	32	+12	3	−19	189	+10	192	− 84
	9. IRELAND, NORTH	55	31	48·3	37·3	42·6	1 above	24	+ 7	13	−10	127	−24	294	+ 8
	10. IRELAND, SOUTH	57	30	51·6	40·1	45·6	2 above	33	+ 9	5	−13	255	+ 9	204	− 15
	—CHANNEL ISLANDS	57	38	52·9	44·3	48·5	3 above	46	+21	0	− 9	303	+60	68	− 56

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 62.)	Rainfall. For the Week: Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897: No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week: Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897: Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	14	5 more	54	− 1	8·8	− 3·4	10	−10	12	−13	110	− 9	16	− 2
	1. SCOTLAND, EAST	7	11	6 more	47	+ 5	5·3	− 1·2	14	−10	17	−13	123	− 34	18	− 5
	2. ENGLAND, N.E.	6	8	4 more	50	+10	5·5	− 0·9	17	− 7	21	− 9	141	− 13	20	− 2
	3. ENGLAND, EAST	5	8	4 more	51	+11	6·6	+ 2·1	27	+ 1	33	0	165	− 13	23	− 2
	4. MIDLAND COUNTIES	5	11	7 more	46	+ 8	7·2	+ 1·9	22	− 2	27	− 3	150	− 13	21	− 2
	5. ENGLAND, SOUTH	5	9	5 more	46	+ 9	8·4	+ 2·5	26	− 1	31	− 3	166	− 14	23	− 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	11	3 more	48	+ 1	8·5	− 3·1	15	− 8	18	−11	136	− 9	20	− 1
	7. ENGLAND, N.W.	6	7	1 more	53	+11	6·8	+ 0·2	20	− 5	24	− 7	127	− 27	18	− 4
	8. ENGLAND, S.W.	6	12	6 more	54	+11	11·3	+ 2·9	28	− 1	34	− 3	173	− 26	24	− 3
	9. IRELAND, NORTH	7	9	3 more	55	+ 6	8·2	+ 0·4	17	− 5	20	− 7	155	− 2	22	0
	10. IRELAND, SOUTH	6	9	3 more	51	+ 6	9·8	+ 1·0	23	− 3	27	− 6	182	− 4	26	0
	—CHANNEL ISLANDS	6	7	2 more	61	+13	10·0*	+ 2·7	29	− 3	34	− 6	177	− 51	24	− 7

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, Manchester, and Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather continued very rainy and unsettled until Thursday, and thunder and lightning were experienced in several parts of England both on the 16th and 17th; later on the conditions improved considerably in all except the extreme north-western parts of the Kingdom.

Temperature was above the mean, the excess ranging from 3° or 4° in most parts of England to 1° in the north and east of Scotland and the north of Ireland. The highest of the maxima were recorded, as a rule, on the 19th, and ranged from 60° in England S. to 53° in England N.E. and Scotland W., and to 49° in Scotland N. The lowest of the minima, which were recorded during the earlier part of the period, ranged from 29° in Scotland N. and E., and 30° in Ireland S. to 38° in the Channel Islands.

Rainfall was more than the mean in all districts. In most parts of England and in the east of Scotland the fall was twice as large as the normal.

Bright Sunshine was deficient in almost all places, but just equalled the mean in England E. The percentage of the possible duration ranged from 34 in the Channel Islands and England S.W. and 33 in England E. to 20 in Ireland N., and to between 18 and 12 in Scotland.

Barometer and Wind.—At the commencement of the week a depression was approaching our south-western coasts from the Atlantic, and the winds were fresh or strong from the South-Eastward. On the evening of the 14th another system lay some distance to the southward of Ireland, and by the following morning it had moved north-eastwards to Wales, and subsequently passed on to the north of England and dispersed. Strong gales from the South-Eastward or Eastward were experienced on several parts of our northern coasts. This disturbance was followed by another which, moving northwards over our extreme western and north-western districts, caused Southerly gales at many of the western stations, and fresh or strong Southerly to South-Westerly winds very generally. On the night of the 18th a small secondary system travelled very quickly from the westward over Ireland and England, producing a slight gale from South-West or West on our south-western and southern coasts. By the end of the week the barometer had risen considerably.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 61 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	29	42·0	34·7	38·2	- 0·2	0	27	7	0·68	+0·08	*	*	*	*
	Stornoway	48	31	45·9	35·7	40·7	+ 1·0	11	24	6	1·74	+0·90	15·5	- 6·6	19	-10
	Wick	48	33	43·6	37·4	40·4	+ 0·9	4	17	7	0·71	+0·26	*	*	*	*
	Lairg Ⓢ	48	31	42·6	34·7	38·5	+ 0·5	2	25	7	1·51	+0·82	*	*	*	*
	Glencarron Ⓢ	48	31	43·2	34·4	38·7	+ 0·6	3	27	7	1·87	+0·40	*	*	*	*
	Fort Augustus Ⓢ															
	Fort William Ⓢ	49	35	45·1	38·0	41·5	+ 1·1	9	16	7	1·91	+0·66	3·9	-16·9	5	-21
1. SCOTLAND, E.	Nairn	54	31	47·6	35·1	41·2	+ 1·4	16	27	5	0·45	+0·09	*	*	*	*
	Aberdeen	53	34	45·0	37·4	41·1	+ 1·2	8	18	7	0·67	+0·17	11·2	-14·8	14	-19
	Braemar Ⓢ	46	29	40·9	32·8	36·7	+ 0·2	0	37	7	1·81	+1·31	11·7†	-13·5†	14†	-18†
	Ochtertyre Ⓢ	51	32	45·1	35·3	40·1	+ 0·3	9	25	7	1·92	+1·31	*	*	*	*
	Leith	53	34	47·6	37·0	42·1	+ 1·0	22	14	7	0·67	-0·14	*	*	*	*
	Marchmont Ⓢ	50	31	45·7	34·0	39·7	+ 0·7	10	30	7	1·23	+0·68	17·5	- 5·3	21	- 8
2. ENGLAND, N.E.	Alnwick Castle	51	34	46·3	36·8	41·4	+ 1·6	12	20	5	1·38	+0·86	*	*	*	*
	Durham	52	33	47·9	36·2	41·9	+ 1·9	17	23	7	0·71	+0·23	17·1	- 7·3	21	-10
	Shields	52	35	48·0	37·7	42·7	+ 1·9	23	12	6	0·63	+0·23	*	*	*	*
	Scarborough Ⓜ	51	35	47·6	39·7	43·6	+ 2·7	21	6	6	0·70	+0·30	*	*	*	*
	York	53	35	49·7	38·4	43·9	+ 2·7	28	10	5	0·59	+0·21	16·6	- 6·2	20	- 9
	Spurn Head	52	36	47·6	39·7	43·3	+ 3·0	21	6	5	0·95	+0·67	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	55	36	51·0	39·0	44·9	+ 3·4	33	8	5	0·86	+0·50	27·8	+ 3·1	33	+ 2
	Yarmouth	54	36	48·3	39·1	43·6	+ 3·3	23	8	5	0·46	+0·06	*	*	*	*
	Geldeston	57	36	51·1	39·7	45·2	+ 3·7	32	6	5	0·63	+0·28	27·4	+ 0·4	33	0
	Cambridge	58	33	52·6	38·4	45·3	+ 3·5	38	10	5	0·79	+0·49	28·7	+ 2·6	35	+ 1
	Rothamsted	57	36	51·2	39·5	45·2	+ 4·4	33	7	5	1·22	+0·83	25·0	- 0·8	30	- 3
4. MIDLAND COUNTIES	Harrogate Ⓜ	51	33	48·9	37·5	43·0	+ 2·9	26	13	6	0·84	?	20·5†	?	25†	?
	Bawtry (Hesley Hall)	56	35	52·1	39·1	45·4	+ 4·1	36	8	5	0·88	+0·51	*	*	*	*
	Loughborough	56	33	51·7	39·9	45·6	+ 3·8	34	6	4	0·85	+0·47	*	*	*	*
	Stamford (Duddington)	55	34	51·3	38·9	44·9	+ 3·4	33	9	5	1·48	+1·15	*	*	*	*
	Cheadle Ⓜ	53	34	48·7	37·7	43·0	+ 3·0	25	12	6	0·94	+0·44	*	*	*	*
	Shirley (near Solihull)	54	35	50·3	38·3	44·1	+ 3·2	30	10	6	1·37	?	*	*	*	*
	Churchstoke Ⓜ	56	33	50·7	37·3	43·8	+ 3·1	32	13	5	1·04	+0·60	21·9	- 2·3	26	- 4
	Hereford Ⓜ	56	33	52·2	37·7	44·7	+ 2·6	37	12	5	1·16	+0·78	*	*	*	*
	Cirencester	55	34	51·9	38·1	44·8	+ 4·0	36	11	5	1·14	+0·68	25·3	+ 0·3	30	0
	Oxford	58	35	52·0	39·9	45·8	+ 4·2	35	6	5	0·92	+0·56	25·9	+ 0·9	31	0
5. ENGLAND, S.	London	58	37	52·9	41·6	47·1	+ 4·5	37	1	5	1·01	+0·68	21·0†	+ 3·5†	25†	+ 3†
	North Foreland	56	38	51·4	41·1	46·1	+ 4·4	32	3	5	0·93	?	*	*	*	*
	Dungeness	56	39	51·0	42·6	46·7	+ 4·9	33	0	6	0·56	+0·16	*	*	*	*
	Hastings (St. Leonards)	54	38	50·0	42·4	46·1	+ 4·0	29	0	5	0·77	+0·33	27·7	- 2·4	33	- 4
	Southampton	60	37	54·2	41·9	47·9	+ 4·7	42	0	5	1·30	+0·85	23·0	- 5·0	28	- 8
	Hurst Castle	55	38	51·0	43·6	47·2	+ 4·6	36	0	4	0·69	+0·27	*	*	*	*
	Stowell Ⓜ	56	35	51·9	39·1	45·3	+ 3·5	35	8	6	1·22	+0·70	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	50	36	46·4	37·5	41·8	+ 0·3	12	18	5	1·64	+0·26	*	*	*	*
	Glasgow	50	34	45·8	38·2	41·9	+ 1·6	11	15	7	1·22	+0·69	6·3	-12·0	8	-15
	Ardrossan	50	35	45·9	37·9	41·8	+ 0·4	11	16	6	0·49	-0·03	*	*	*	*
	Glenlee Ⓢ	52	35	46·8	37·1	41·8	+ 1·8	13	19	7	1·40	+0·53	*	*	*	*
	Gilcrux (Cumberland)	50	35	47·2	38·2	42·6	+ 2·4	20	11	7	1·13	?	15·0	?	18	?
	Douglas (Isle of Man)	53	37	48·6	40·7	44·5	+ 2·8	23	4	7	0·83	+0·20	23·5	- 4·1	28	- 7
7. ENGLAND, N.W.	Stonyhurst	52	35	47·4	38·5	42·8	+ 2·1	20	10	7	1·16	+0·41	15·0	- 7·3	18	-10
	Blackpool Ⓜ	54	35	48·8	39·0	43·8	+ 2·6	25	8	6	0·67	+0·17	19·0	- 2·8	23	- 5
	Manchester (Prestwich)	53	35	50·3	39·1	44·5	+ 3·5	30	8	6	0·40	-0·13	17·1	?	21	?
	Liverpool Obsy. (Bidston)	55	36	49·1	39·7	44·3	+ 2·2	26	6	5	0·50	+0·10	*	*	*	*
	Llandudno Ⓜ	55	37	49·5	40·5	44·9	+ 1·7	27	4	5	0·54	+0·09	*	*	*	*
	Holyhead	52	37	49·1	40·6	44·7	+ 1·8	25	4	5	0·66	+0·16	*	*	*	*
8. ENGLAND, S.W.	Llandovery	57	31	52·1	36·4	44·0	+ 1·4	38	16	6	1·42	+0·63	*	*	*	*
	Pembroke	50	37	48·0	40·3	44·0	+ 0·8	21	5	7	0·92	+0·40	31·6	+ 2·3	38	+ 2
	Clifton	55	36	51·8	40·6	46·0	+ 3·3	34	4	6	1·53	+1·03	*	*	*	*
	Arlington (N. Devon)	52	35	49·4	38·9	44·0	+ 3·3	27	9	7	1·30	+0·52	*	*	*	*
	Cullompton Ⓜ	58	36	54·7	41·6	48·0	+ 3·8	44	1	5	1·31	+0·79	27·3	+ 0·4	33	0
	Falmouth	56	38	52·1	43·7	47·8	+ 3·5	41	0	6	1·12	+0·42	28·1	- 1·8	34	- 3
	Plymouth	58	38	51·7	43·2	47·3	+ 3·1	37	0	6	1·17	+0·60	23·3	- 5·8	28	- 8
	Prawle Point	52	39	49·4	42·3	45·8	+ 2·7	27	0	7	0·85	+0·43	*	*	*	*
9. IRELAND, N.	Malin Head	49	36	45·7	38·4	41·9	- 0·7	10	14	7	0·66	?	*	*	*	*
	Londonderry	53	32	47·9	36·5	42·0	- 0·6	17	15	7	0·96	+0·34	*	*	*	*
	Edenfel (Omagh)	52	31	47·3	36·1	41·5	+ 0·9	15	23	6	1·22	+0·64	*	*	*	*
	Belmullet	51	34	48·0	37·9	42·8	- 1·1	23	11	5	1·03	+0·17	*	*	*	*
	Markree Castle	53	33	49·6	37·0	43·1	+ 1·1	29	14	7	0·80	+0·18	16·8	- 5·4	20	- 8
	Armagh	55	33	49·3	37·0	43·0	+ 1·6	28	14	7	0·95	+0·49	16·2	- 5·7	20	- 7
	Donaghadee	54	35	48·7	38·1	43·2	+ 0·5	25	11	7	0·78	+0·31	*	*	*	*
	Edgeworthstown	54	33	49·7	37·3	43·3	+ 2·5	29	13	6	0·75	+0·15	*	*	*	*
10. IRELAND, S.	Dublin	57	37	51·7	40·9	46·1	+ 2·4	33	3	4	0·39	-0·06	25·0	- 1·0	30	- 3
	Parsonstown	57	34	51·7	38·7	45·0	+ 2·5	35	9	7	0·55	+0·03	22·8	- 1·2	27	- 3
	Kilkenny	57	32	50·4	38·3	44·2	+ 0·7	31	10	4	0·76	+0·28	*	*	*	*
	Roche's Point	56	36	50·9	41·4	46·0	+ 1·3	31	2	4	1·55	+0·80	*	*	*	*
	Valencia	55	35	51·7	41·4	46·4	+ 0·5	33	2	7	1·02	+0·17	20·9	- 7·1	25	-10
	Killarney	57	30	52·9	39·6	46·1	+ 1·4	39	7	5	1·24	?	*	*	*	*
	Foynes	?	38	?	41·3	?	?	?	?	6	0·91	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	40	52·4	44·3	48·2	+ 2·3	43	0	5	0·64	+0·10	25·9	?	31	?
	Jersey	57	38	53·4	44·3	48·7	+ 3·7	47	0	7	0·80	+0·29	27·8	- 5·6	33	- 9

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

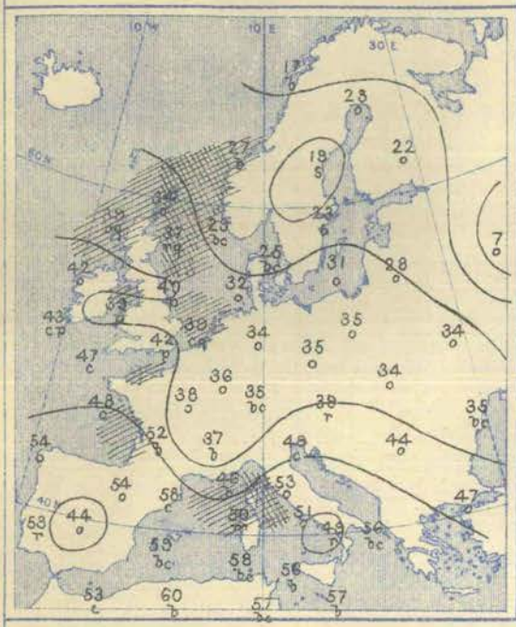
† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

NOTE:—It will be observed that Gilcrux has been added to the list of stations in Scotland, W.

Sunday, 14th March.

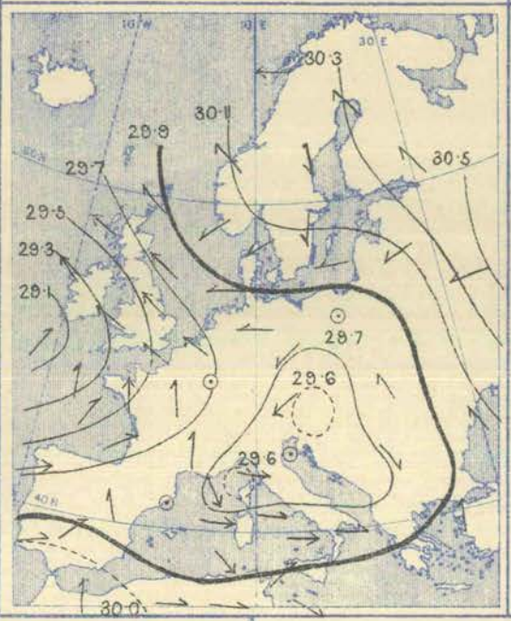
Temperature and Weather.

8 a.m.

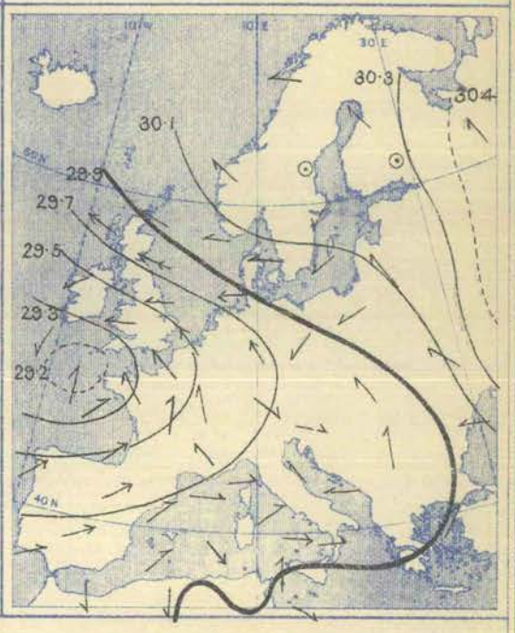


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull, unsettled and rainy over the British Islands and their neighbourhood, as well as over central Europe—snow falling at several of the Baltic stations. Fine over the greater part of the Mediterranean, and also on the coast of Norway. Rain falling later in all parts of the British Islands and the west and north of France, and showers locally over Central Europe and on the shores of the Baltic; hail reported at Aberdeen, and snow over the east of Scotland generally.

Temperature fallen a little in the north, risen in the south, but changing fitfully. Morning readings ranging from between 60° and 55° over the southern parts of the Mediterranean, and from 54° at Corunna and Biarritz, to 7° at Moscow, and much below the freezing point over northern Europe generally; 34° at Sumburgh Head, 37° at Aberdeen. Failing to touch 50° over Great Britain, Ireland, and the north of France later, but reaching 61° at Nice, 66° at Biarritz, 68° at Palermo, and 72° on the Algerian coast.

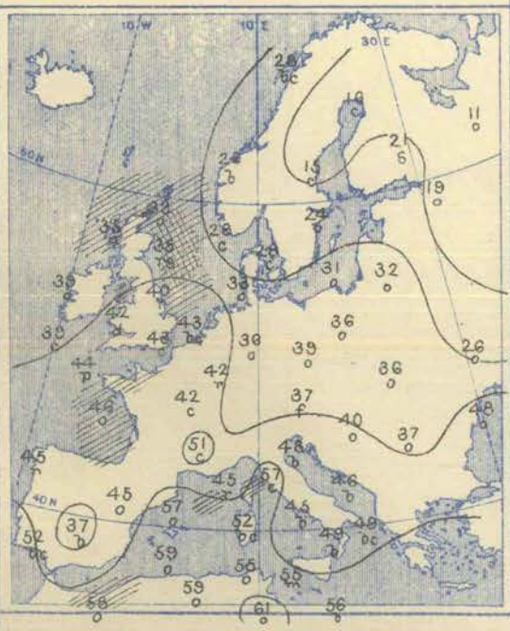
Wind (1) light from the Eastward over northern Europe, moderate to strong from the Westward and South-Westward in the south and blowing a moderate gale from West at several of the Mediterranean stations. (2) Moderate to a gale from between South and East over the British Islands; (3) Moderate, but cyclonic, over Central Europe. The Easterly wind blowing still harder over our northern districts later, and the South-Westerly wind blowing a gale at Corunna.

Barometer highest, 30·5 ins. and more to 30·2 ins. over Russia; exceeding 29·6 ins. over the north-east of Scotland and 30·0 ins. over the south-west parts of the Spanish Peninsula. Lowest 29·1 ins. and less in a depression off the western coasts of the British Islands and below 29·4 over our western coasts generally. New depression advancing north-eastwards, towards our south-western coasts during day.

Monday, 15th March.

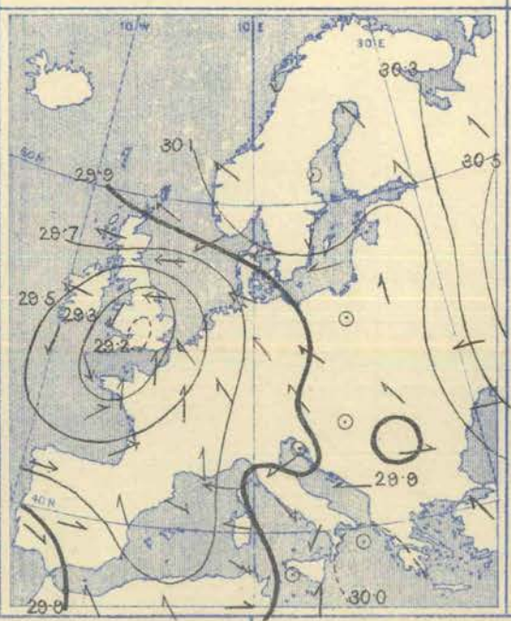
Temperature and Weather.

8 a.m.

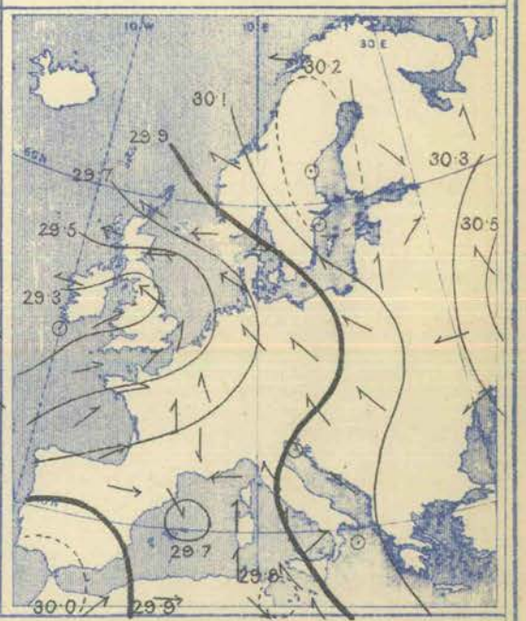


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright on the Norwegian coast, as well as over the southern parts of Spain, and the whole of Italy and the Adriatic; dull and very unsettled elsewhere, with rain in several parts of our Islands and western Europe; hail and snow in Scotland. These conditions continuing during the day. Rainfall as much as 0·75 ins. at Roches Point, and very heavy over the south of France and on the coast of Tunis.

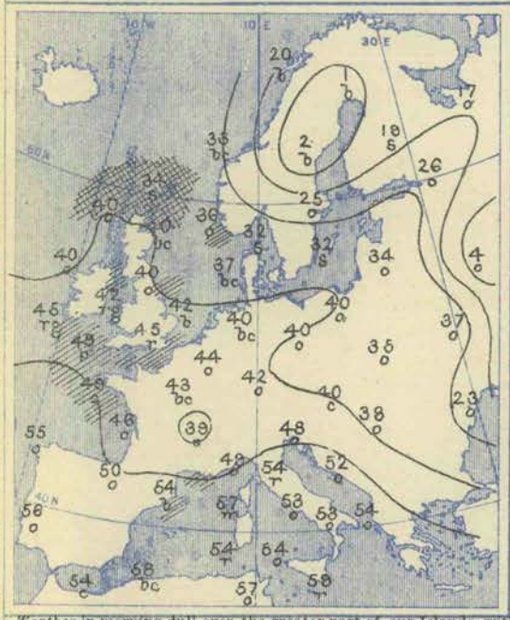
Temperature changing little and irregularly. Morning readings highest 61° at Sfax, 59° at Algiers and Palma; 52° at Lisbon, 48° at Rochefort, 46° at Dungeness. Lowest, 6° Fahr. at Kharkov, 11° at Archangel, and much below the freezing point over Russia and Scandinavia generally; 33° at Sumburgh Head, 34° at Nairn, 38° at Liverpool and Parsonstown. Rising later to between 39° and 41° at the Scotch stations to 48° in several parts of England and Ireland, 51° at Jersey and Paris, 55° at Perpignan, and 70° at Palermo and Tunis, but continuing to change very irregularly in all parts of the British Islands.

Wind light and anticyclonic over Scandinavia and Russia, but cyclonic over the whole of the British Islands and their neighbourhood—the Northerly winds on our south-western coasts being of little strength, and the Southerly winds moderate at our eastern stations, while the Easterly winds in Scotland and on the eastern shores of the North Sea were strong to a gale in force. The Easterly gale becoming severe in Scotland later and the wind shifting to the Southward again in the south of Ireland.

Barometer (1) 30·5 ins. and more to 30·1 ins. over Russia, and 30·2 to 30·1 ins. over Scandinavia. (2) 29·9 ins. and more over the south-west of Spain. Lowest, 29·2 ins. and less in a depression over Wales and the Bristol Channel, and spreading over the United Kingdom and its neighbourhood. A new disturbance approaching Ireland from the Atlantic later.

Tuesday, 16th March.

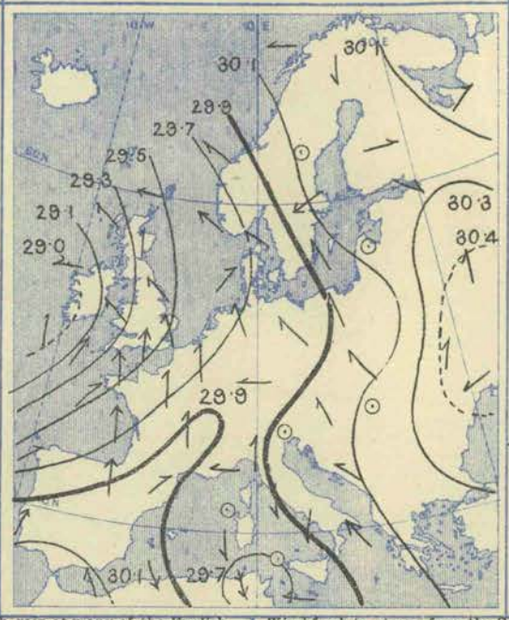
Temperature and Weather. — 8 a.m.

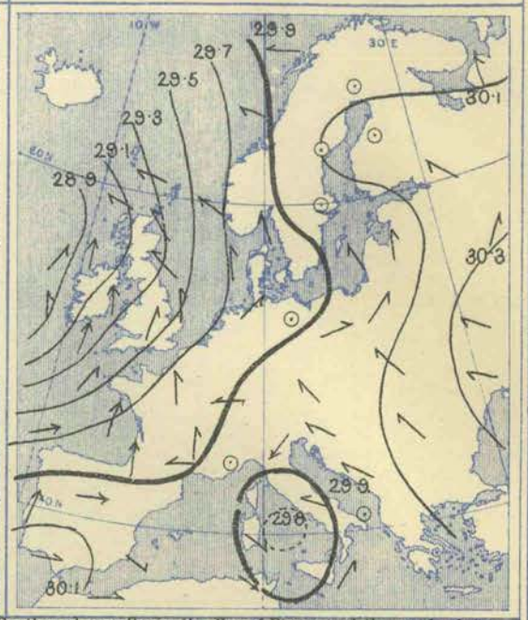


Weather in morning dull over the greater part of our Islands, with rain at many of the English and Irish stations, and snow at Sumburgh Head. Fine over the northern parts of Scandinavia, as well as in Holland, north-western Germany and some portions of the extreme south of France; cloudy and unsettled in other parts of the Continent, with rain at Turin, Leghorn, and Toulon, and snow in the south of Scandinavia and the north of Denmark. Rain falling during day over western Europe generally and thunderstorm occuring at York. Very heavy rain reported at Gap and the mountain regions of the south-east of France generally. Lunar halos seen in the east and south of England.

Temperature risen in our Islands, and also in Norway, Denmark, Germany, and Italy, fallen elsewhere. Morning readings highest, 59° at Malta, 58° at Algiers, and 57° at Sfax; above 50° at the Mediterranean and Spanish coast stations generally; above 45° in the south of England. Lowest, 1° at Uleaborg, 2° at Hernösand, and 4° at Haparanda and Moscow, below the freezing point over Sweden and Russia generally. Rising during day to between 50° and 55° in many parts of England and the south of Ireland; exceeding 55° over the southern parts of France, and reaching 63° at Lisbon, and 66° at Leghorn.

Barometer and Wind. — 8 a.m. / 6 p.m.



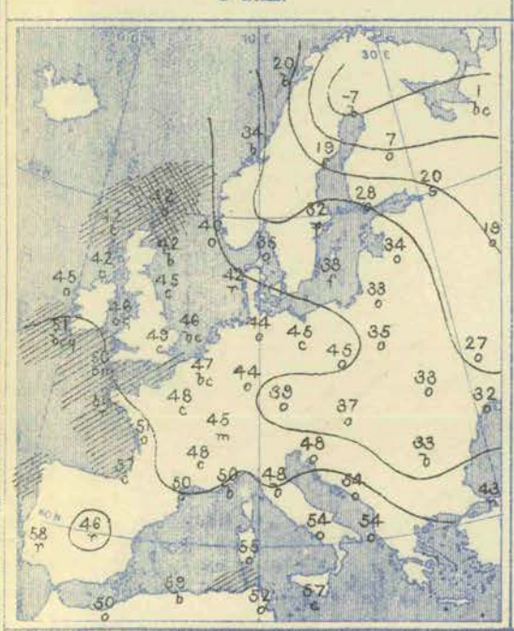


Wind fresh to strong from the Southward over Spain, the Bay of Biscay, and the south of our Islands, and light from the same quarter over central France and the Netherlands. South-Easterly or Easterly over the northern parts of the United Kingdom, as well as over the greater part of Scandinavia, Denmark and Germany. Calm or variable in Austria, Easterly or North-Easterly in the south of Russia, and also in Italy. Subsequently veering to the Southward at many of our northern stations. No important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards over the southern parts of Russia, 30·1 ins. and upwards in an anticyclone covering the greater part of eastern Europe, and also in another system over Morocco and the extreme south of Spain. Lowest, 29·0 ins. and less in a depression lying over the southern parts of Ireland, 29·7 ins. and less in a shallow disturbance off the Tunisian coasts. Depression subsequently moving northwards, but new disturbances beginning to approach our south-west coasts in evening.

Wednesday, 17th March.

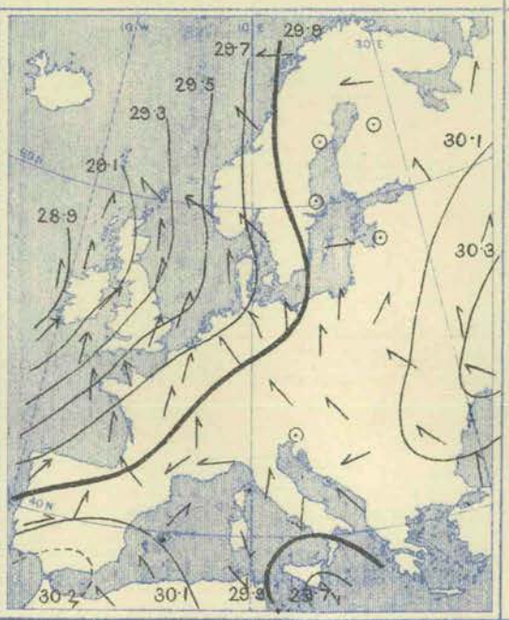
Temperature and Weather. — 8 a.m.

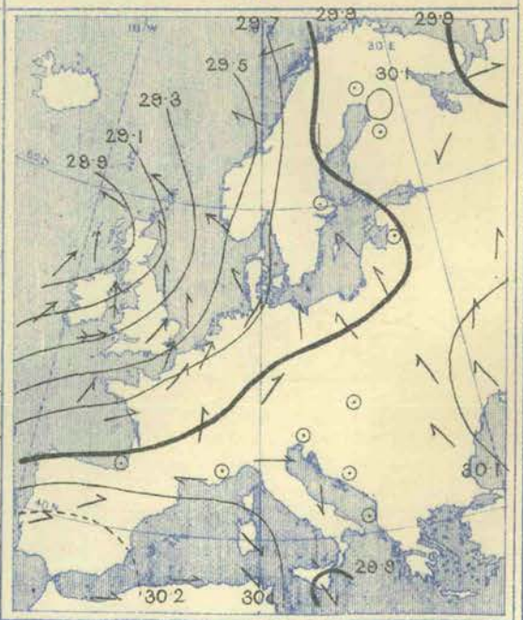


Weather in morning fine in the north and east of our Islands, but cloudy in the west and south, with rain or passing showers in many places. Cloudy or dull over the greater part of the Continent with fog in Sweden, and rain at several of the central and southern stations; snow falling over the Gulf of Finland as well as at Faerder. Fine in the extreme northern parts of Russia and Scandinavia, as well as over the Netherlands and some parts of northern Italy. Rain falling later over western Europe generally, and in several parts of north Germany, thunder and lightning occurring at several English stations.

Temperature risen in most countries. Morning readings highest, 61° at Palma, 60° at Barcelona, 59° at Algiers, and 58° at Lisbon and San Fernando; above 50° at the Mediterranean and Adriatic stations generally, and also in the extreme south-west of our Islands. Lowest −7° Fahr. at Haparanda, +1° at Archangel, 6° at Uleaborg, and 7° at Kuopio; below the freezing point in most parts of Sweden and Russia. Rising during day to between 50° and 55° in many parts of the United Kingdom, exceeding 60° in the south of France and reaching 70° at Biarritz, 72° at Algiers and Sfax.

Barometer and Wind. — 8 a.m. / 6 p.m.



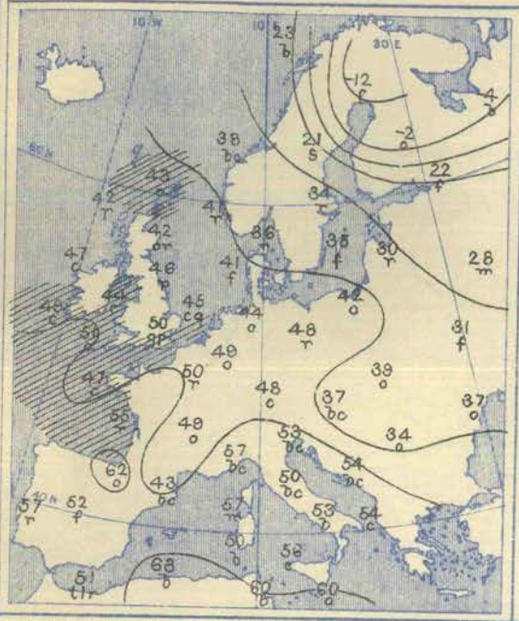


Wind Southerly over western Europe generally, and strong in force on our own western coasts; South-Easterly or Easterly in the west of Norway. Calm in Sweden, light from the southward over Russia and Germany, variable in Italy, South-Westerly at most of the Spanish stations. Subsequently veering to the South-Westward over England, Ireland, and France, and increasing to a gale at some of the Channel stations.

Barometer highest, 30·5 ins. and upwards in the south of Russia, 30·0 ins. and upwards in an anticyclone covering nearly the whole of Russia and south-eastern Europe, and also in another system over Algeria and the southern parts of Spain. Lowest, 28·9 ins. and less, in a depression lying off the west of Ireland; 29·7 ins. and less, in a smaller disturbance near Malta. Depression in west, subsequently moving northwards and barometer rising again on our south-west coasts.

Thursday, 18th March.

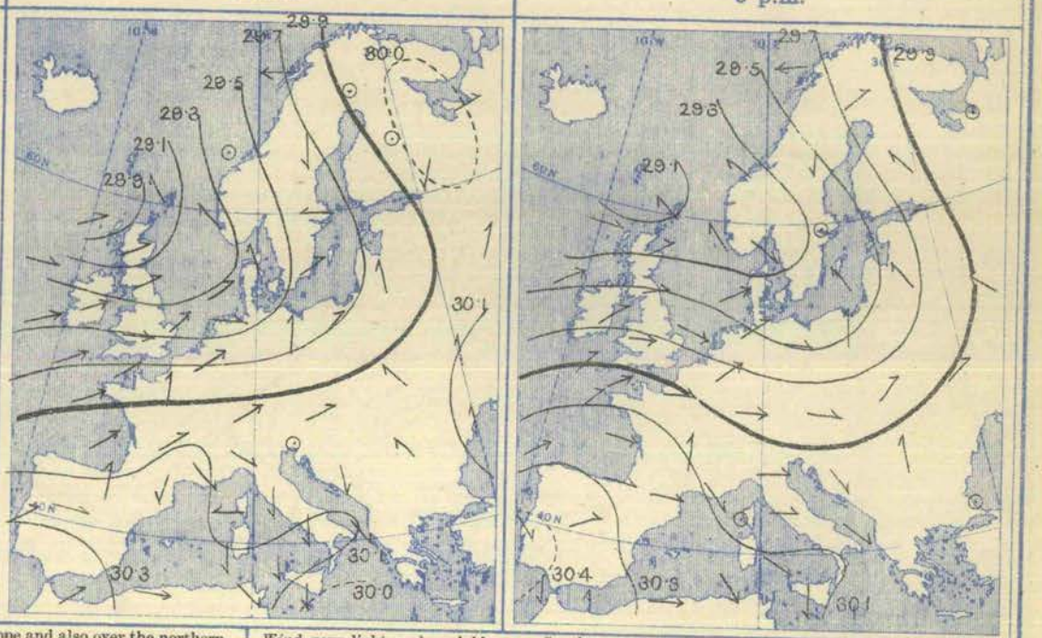
Temperature and Weather. 8 a.m.



Weather in morning fine generally over the southern parts of Europe and also over the northern parts of Russia and Scandinavia, rough, squally, and unsettled over the north-western countries, including the British Islands. Rain falling later over nearly the whole of the last-named districts, thunder and lightning occurring in the north-east and east of England, and lunar halos seen in the south at night.

Temperature rising over central Europe, changing little and irregularly elsewhere. Morning readings highest, 68° to 60° at some stations on the southern side of the Mediterranean, 62° at Biarritz, 51° at Wiesbaden and Scilly, 50° in London, 49° at Valencia (Ireland). Lowest, −12° Fahr. at Haparanda, −4° at Archangel, −2° at Kuopio, +21° at Hernösand, 23° at Bodö, 22° at St. Petersburg and Kharkov, and 28° at Moscow. Rising later to between 50° and 55° over many parts of the British Islands, to 57° at Munich, 63° at Paris and 73° at Perpignan.

Barometer and Wind. 8 a.m. and 6 p.m.

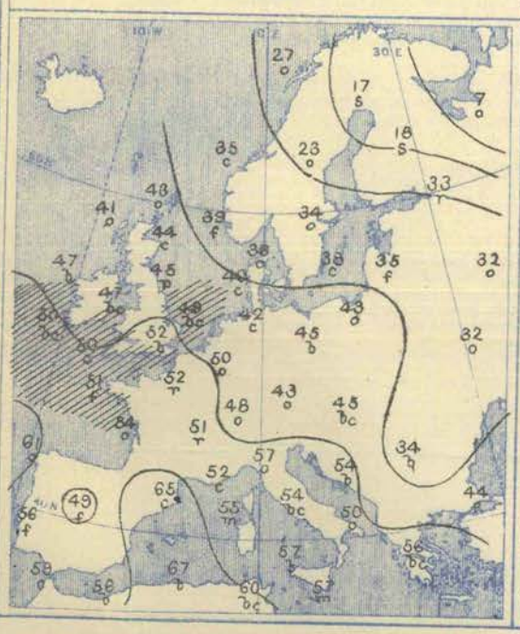


Wind very light and variable over Southern and Eastern Europe, and mainly anticyclonic; cyclonic over the north-western countries, and moderate to strong in force. Westerly over our western districts, South-Westerly in the east and over Holland, Southerly over Germany, and South-Easterly to Easterly over Norway. Increasing later to a moderate gale from South-West and West over England, Ireland, and the northern parts of France but remaining moderate in Scotland.

Barometer highest (1) 30·3 ins. and more over the south-west of Spain, 30·2 ins. and more over the south of Russia, and exceeding 30·0 ins. over southern and south-eastern Europe generally; (2) exceeding 30·0 ins. over Finland. Lowest, below 28·9 ins. over the Hebrides and north-west of Scotland, and below 29·3 ins. in a secondary disturbance over the North Sea. Barometer falling over the northern countries, rising in the south-west. Another secondary system advancing over Ireland and England later from the westward.

Friday, 19th March.

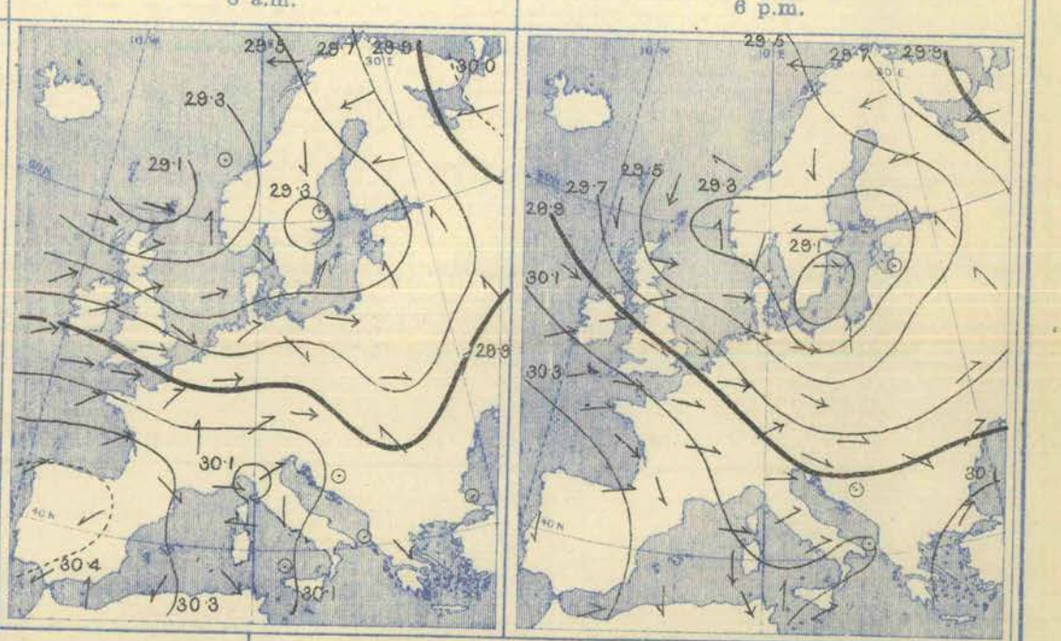
Temperature and Weather. 8 a.m.



Weather in morning fine over the Mediterranean, and over Ireland and England, dull and unsettled elsewhere, with rain, or snow, locally, in all continental countries and in the extreme north of Ireland. Hardly any rain at the Irish and English stations later, but a good deal over the Continent, the largest amounts reported being 0·7 ins. at Fanö, and 0·8 ins. at Besançon.

Temperature risen rapidly over northern, and moderately over central Europe. Morning readings highest, 67° at Algiers, 65° at Barcelona, 61° at Corunna, 52° at Paris and in London, 50° at Valencia (Ireland). Lowest, 7° Fahr. at Archangel, 17° to 19° over the northern half of Finland, 27° at Bodö, 41° at Stornoway and Leith. Rising later to between 53° and 58° over many parts of Ireland and England, to 64° at Paris and Nice, 71° at Perpignan, 73° at Cagliari, and 79° at Algiers and Sfax.

Barometer and Wind. 8 a.m. and 6 p.m.



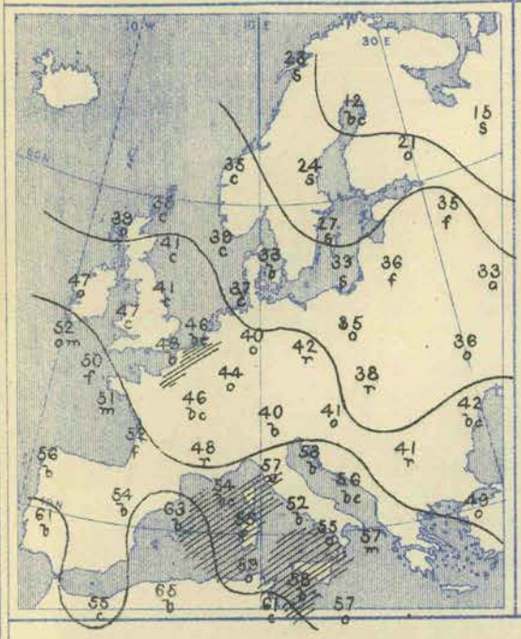
Wind Westerly—moderate to a gale over the United Kingdom, fresh over Germany, but South-Easterly to Easterly, and strong over Finland and Lapland; Westerly, and moderate over central Europe, very light and variable over the Southern countries. Increasing to a gale over the North Sea and at several of the German stations later, moderating on our western and southern coasts.

Barometer highest, 30·4 ins. and more to 30·1 ins. over the Spanish Peninsula, the south of France and the Mediterranean, and exceeding 30·0 ins. at Archangel. Lowest, below 29·1 ins. over the Shetland Isles and below 29·3 ins. in a small depression over Sweden. Below 30·0 ins. over Greece. Rising fast throughout our Islands all day; Swedish depression moving southwards.

Saturday, 20th March.

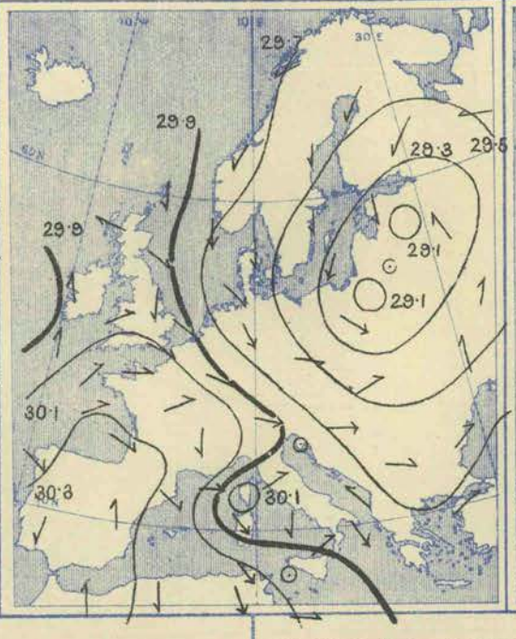
Temperature and Weather.

8 a.m.

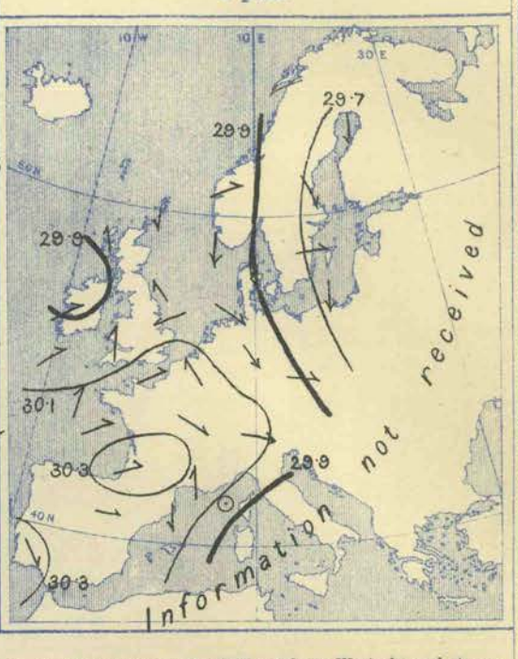


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Spain, the eastern half of England, and at some stations on the north-eastern shores of the North Sea; dull over the west and north-west of our Islands; very unsettled over the Baltic and Germany with rain or wet snow in many places, changeable and unsettled over the Mediterranean also. Some rain falling later in all the northern and western parts of the United Kingdom, but the weather over the south-eastern and southern parts, and over France, remaining fair.

Temperature fallen a little over Great Britain, France, and central Europe. Morning readings highest, 65° at Algiers, 61° at Lisbon, Tunis, and Sfax, 59° at Perpignan, 52° to 50° on our south-western coasts and in the west of France. Lowest, 12° to 24° over the extreme north of Europe, 33° to 37° over the greater part of the Baltic, 38° to 40° over the north and north-east of Scotland. Rising later to between 50° and 57° over Ireland and England to 60° at Paris, to 71° at Perpignan, and 75° at Lisbon.

Wind (1) Northerly and moderate over Scandinavia; North-Westerly to Westerly and strong over Germany; Southerly and light over Russia; (2) light and anticyclonic over France and Great Britain; (3) Southerly to South-Easterly and moderate over Ireland. A cyclonic circulation of strong winds prevalent over the Mediterranean. Very little change over the British Islands later.

Barometer highest, 30·3 ins. and more to 30·2 ins. in an anticyclonic system covering Spain, the Bay of Biscay, and the western half of France, and exceeding 30·0 ins. in a ridge stretching northwards over the whole of Great Britain and the east of Ireland. Lowest, 29·1 ins. and less to 29·2 ins. in a depression covering the eastern shores of the Baltic; below 29·9 ins. in another lying over the northern parts of the Mediterranean, and apparently below 29·9 ins. off the extreme west of Ireland. Definite depression appearing off our north-western coasts later, but barometer rising fast over Scandinavia and the Baltic.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During all the early part of this week low pressure systems continued to appear off our western coasts, while others were observed over England, and on one occasion over central Europe also. The winds were consequently South-Westerly and Southerly over the greater part of western Europe, but South-Easterly to Easterly in the north-west and north. Temperature was slightly below the mean, large quantities of rain fell over the British Islands and their neighbourhood, snow and hail at some of the northern stations, and lightning and thunder occurred in some localities. After Thursday, however, the depression observed lay further to the northward, the high pressure system over Spain spread northwards in their rear, and fine weather became general over France and England, though showers continued in Ireland and Scotland. Temperature rose decidedly over Great Britain and France, and exceeded the mean for the time of year by several degrees.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 62.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
EDINBURGH	13·8	− 7·0	17	−9	EASTBOURNE	27·9	− 1·1	34	−3
OSWALDKIRK (Yorkshire)					SOUTHPORT	19·9	?	24	?
WORKSOP	18·2	− 4·0	22	−6	COLWYN BAY	26·8	?	32	?
THURCASTON (Leicestershire)	20·7	− 0·4	25	−2	NEWQUAY	24·3	− 5.5	29	−8
MARGATE	27·3	+ 1·3	33	+1	TORQUAY	32·3*	+ 3·3	39*	+2
WESTBOURNE (Sussex)	28·6*	− 1·6	34*	−4	GUERNSEY	31·8*	− 1·0	38*	−3
BRIGHTON	27·4	− 0·8	33	−3					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIV. No. 12.] *Third Series.* WEEK ENDING SATURDAY, MARCH 27TH, 1897. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 68.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	° 54	34	° 49·5	° 40·4	° 44·8	5 above	Day-deg. 26	Day-deg. +16	Day-deg. 4	Day-deg. −30	Day-deg. 91*	Day-deg. + 5	Day-deg. 437*	Day-deg. − 28
	1. SCOTLAND, EAST	60	32	53·1	40·9	46·8	7 above	38	+23	3	−32	119	+ 4	475	− 23
	2. ENGLAND, N.E.	62	39	55·5	44·4	49·8	8 above	55	+38	0	−30	166	+50	365	− 69
	3. ENGLAND, EAST	64	41	57·7	45·0	51·2	9 above	64	+43	0	−32	196	+51	386	−106
	4. MIDLAND COUNTIES	62	37	57·0	45·7	51·2	9 above	64	+40	0	−33	205	+50	394	− 95
	5. ENGLAND, SOUTH	64	42	55·8	45·8	50·6	7 above	60	+37	0	−26	218	+45	265	−128
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	36	51·4	43·9	47·6	6 above	39	+24	0	−27	130	+ 2	325	− 31
	7. ENGLAND, N.W.	62	39	53·9	45·6	49·7	7 above	54	+38	0	−26	167	+44	296	− 68
	8. ENGLAND, S.W.	60	41	53·3	46·2	49·6	6 above	53	+31	0	−21	242	+41	192	−105
	9. IRELAND, NORTH	59	36	53·7	44·8	49·2	6 above	50	+30	0	−23	177	+ 6	294	− 15
	10. IRELAND, SOUTH	62	41	55·1	46·4	50·6	6 above	60	+34	0	−18	295	+43	204	− 33
	—CHANNEL ISLANDS	57	43	55·0	47·3	51·1	5 above	64	+38	0	− 8	367	+98	68	− 64

Rainfall.

	DISTRICTS. (See p. 68.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 20	10ths of ins. 12 more	61	0	Ins. 10·8	Ins. − 2·2
	1. SCOTLAND, EAST	6	9	5 more	53	+ 7	6·2	− 0·8
	2. ENGLAND, N.E.	4	3	1 less	54	+10	5·8	+ 0·7
	3 ENGLAND, EAST	2	2	2 less	53	+ 9	6·8	+ 1·9
	4. MIDLAND COUNTIES	4	3	1 less	50	+ 9	7·5	+ 1·8
	5. ENGLAND, SOUTH	2	1	4 less	48	+ 7	8·5	+ 2·1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	23	15 more	55	+ 4	10·8	− 1·6
	7. ENGLAND, N.W.	5	7	2 more	58	+12	7·5	+ 0·4
	8. ENGLAND, S.W.	5	6	0 (average)	59	+13	11·9	+ 2·9
	9. IRELAND, NORTH	7	11	5 more	62	+ 9	9·3	+ 0·9
	10. IRELAND, SOUTH	6	10	4 more	57	+ 9	10·8	+ 1·4
	—CHANNEL ISLANDS	4	1	4 less	65	+13	10·1	+ 2·2

Bright Sunshine.

	DISTRICTS. (See p. 68.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	−16	7	−19	115*	− 25	15	− 4
	1. SCOTLAND, EAST	15	−10	18	−13	133	− 44	18	− 6
	2. ENGLAND, N.E.	21	− 5	25	− 7	161*	− 19	21	− 2
	3 ENGLAND, EAST	23	− 5	27	− 7	188	− 18	24	− 2
	4. MIDLAND COUNTIES	25	− 2	29	− 4	175	− 15	22	− 2
	5. ENGLAND, SOUTH	24	− 6	28	− 8	190	− 20	23	− 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	14	−10	16	−12	150	− 19	20	− 2
	7. ENGLAND, N.W.	20	− 9	23	−12	147	− 37	18	− 5
	8. ENGLAND, S.W.	22	−10	26	−13	195	− 36	24	− 5
	9. IRELAND, NORTH	21	0	24	0	176	− 2	23	0
	10. IRELAND, SOUTH	23	− 6	27	− 8	205	− 10	26	− 1
	—CHANNEL ISLANDS	26	− 8	31	−11	203	− 59	25	− 7

Bright Sunshine.—Owing to the absence of mean values for Southport, Colwyn Bay, Manchester, and Scilly (St. Mary's), the "difference from the mean" in England N.W. and the Channel Islands is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was extremely unsettled and rainy over all the northern and western parts of Scotland, and less so over the other northern and western districts, but over the eastern and southern parts of the Kingdom the condition was mostly fair and dry.

Temperature was much above the mean, the excess varying from 5° in Scotland N. and the Channel Islands to 8° in England N.E. and 9° in England E. and the Midland counties. The highest of the maxima were recorded, as a rule, on the 23rd, when they varied from 64° in England S. and E. to 55° in Scotland W. and 54° in Scotland N. The lowest of the minima, which occurred generally during the earlier days of the week, ranged from 32° in Scotland E. to 42° in England S. and to 43° in the Channel Islands.

Rainfall was much above the mean in the north and west of Scotland, and considerably in excess over Ireland and the east of Scotland, while in the eastern and southern districts of England there was a considerable deficit.

Bright Sunshine was less than the normal in all districts except Ireland N., the difference from the mean being large in all the northern and north-western parts of Great Britain. The percentage of the possible duration ranged from 31 in the Channel Islands, and from between 29 and 23 over England and Ireland to between 18 and 7 in Scotland.

Barometer and Wind.—During the whole of this period pressure was highest in the south and south-east, while depressions moved northwards or north-eastwards over our western and northern districts. Southerly to South-Westerly or Westerly winds were consequently prevalent over the whole Kingdom, and, while light or moderate in the south and south-east, they blew freshly or strongly in the north and west, and occasionally attained the force of a gale. At the end of the period the wind had increased considerably, even on our southern coasts.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 67 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	48	34	45·6	36·9	41·1	+ 2·2	10	19	6	1·46	+0·90	*	*	*	*
	Stornoway	51	37	49·0	40·9	44·8	+ 4·6	24	3	7	2·21	+1·41	9·0	−15·0	10	−19
	Wick	54	35	50·7	40·9	45·7	+ 5·7	31	3	7	0 83	+0·42	*	*	*	*
	Lairg Ⓢ	54	34	50·0	38·8	44·2	+ 5·4	29	9	7	1·16	+0·48	*	*	*	*
	Glencarron Ⓢ	52	35	48·8	39·0	43·8	+ 4·8	25	8	7	3·60	+2·23	*	*	*	*
	Fort Augustus Ⓢ	54	40	51·8	42·6	47·1	+ 7·0	36	0	7	1·43	+0·86	8·8	− 9·2	10	−11
	Fort William Ⓢ	53	41	50·3	43·4	46·8	+ 5·8	34	0	7	3·48	+2·38	1·3	−21·1	2	−25
1. SCOTLAND, E.	Nairn	55	35	53·7	40·6	47·0	+ 6·3	41	4	6	0·50	+0·18	*	*	*	*
	Aberdeen	60	37	54·1	41·4	47·6	+ 6·7	42	2	6	0·68	+0·18	14·4	−13·8	17	−17
	Braemar Ⓢ	52	33	48·6	38·8	43·6	+ 6·0	25	9	6	0·85	+0·35	11·0†	−15·7†	13†	−19†
	Ochtertyre Ⓢ	56	38	53·4	40·6	46·8	+ 6·1	39	4	7	2·03	+1·38	*	*	*	*
	Leith	58	39	55·9	43·3	49·4	+ 7·5	52	0	5	0·59	+0·23	*	*	*	*
	Marchmont Ⓢ	54	32	52·9	40·6	46·6	+ 6·8	38	4	6	0·96	+0·38	14·5	− 9·5	17	−12
2. ENGLAND, N.E.	Alnwick Castle	60	39	56·1	43·5	49·6	+ 9·3	53	0	6	0·45	−0·10	*	*	*	*
	Durham	59	41	55·1	44·1	49·4	+ 8·2	52	0	4	0·34	−0·16	25·0	− 1·3	29	− 4
	Shields	59	40	55·9	44·3	49·9	+ 8·5	55	0	3	0·55	+0·13	*	*	*	*
	Scarborough Ⓜ	62	41	56·7	44·1	50·2	+ 8·3	57	0	3	0·27	−0·18	*	*	*	*
	York	59	43	56·0	45·9	50·8	+ 8·7	62	0	3	0·22	−0·20	18·4	− 6·6	21	− 9
	Spurn Head	56	42	53·1	44·7	48·8	+ 7·3	48	0	3	0·17	−0·15	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	61	41	57·2	44·9	50·9	+ 8·1	62	0	3	0·29	−0·10	16·7	− 9·7	19	−13
	Yarmouth	57	41	55·6	44·0	49·6	+ 8·4	53	0	1	0·07	−0·38	*	*	*	*
	Geldeston	63	41	58·3	44·7	51·3	+ 8·8	65	0	2	0·11	−0·28	21·0	− 8·9	24	−12
	Cambridge	64	42	59·9	45·7	52·6	+ 9·8	74	0	1	0·13	−0·22	25·9	− 3·1	30	− 5
	Rothamsted	61	43	57·5	45·9	51·5	+ 9·6	67	0	4	0·28	−0·14	29·2	+ 1·2	34	0
4. MIDLAND COUNTIES	Harrogate Ⓜ	57	37	53·9	42·5	48·0	+ 6·7	43	0	7	0·56	?	31·4†	?	36†	?
	Bawtry (Hesley Hall)	61	45	58·3	47·1	52·5	+10·2	74	0	4	0·29	−0·13	*	*	*	*
	Loughborough	62	44	58·9	46·7	52·6	+ 9·8	74	0	5	0·32	−0·10	*	*	*	*
	Stamford (Duddington)	60	43	57·6	46·7	52·0	+ 9·5	70	0	2	0·26	−0·12	*	*	*	*
	Cheadle Ⓜ	60	41	55·0	44·2	49·4	+ 8·1	52	0	4	0·36	−0·18	*	*	*	*
	Shirley (near Solihull)	60	43	56·6	45·8	51·0	+ 9·2	63	0	4	0·25	?	*	*	*	*
	Churchstoke Ⓜ	61	43	57·2	46·0	51·4	+ 9·8	66	0	3	0·39	−0·06	27·4	+ 0·6	32	0
	Hereford Ⓜ	62	43	58·5	46·5	52·3	+ 9·0	72	0	3	0·24	−0·17	*	*	*	*
	Cirencester	60	42	56·3	45·6	50·8	+ 9·1	62	0	4	0·20	−0·30	27·0	0·0	31	0
	Oxford	61	43	57·4	46·3	51·7	+ 8·9	68	0	2	0·19	−0·21	26·2	− 1·0	30	− 3
5. ENGLAND, S.	London	64	44	59·3	47·0	53·0	+ 9·3	77	0	2	0·15	−0·23	24·0†	+ 3·6†	28†	+ 3†
	North Foreland	60	44	57·9	45·3	51·4	+ 9·1	66	0	2	0·15	?	*	*	*	*
	Dungeness	53	44	52·0	45·1	48·5	+ 5·7	46	0	2	0·04	−0·44	*	*	*	*
	Hastings (St. Leonards)	55	43	54·6	44·8	49·6	+ 6·5	53	0	3	0·08	−0·42	22·1	−10·7	26	−13
	Southampton	63	44	58·9	46·8	52·7	+ 8·4	75	0	3	0·13	−0·35	27·3	− 3·5	32	− 5
	Hurst Castle	55	44	51·9	46·4	49·1	+ 5·6	50	0	3	0·13	−0·34	*	*	*	*
	Stowell Ⓜ	60	42	55·8	45·0	50·2	+ 7·4	57	0	2	0·22	−0·36	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	54	42	51·2	44·0	47·5	+ 5·0	39	0	7	3·86	+2·54	*	*	*	*
	Glasgow	53	40	51·3	44·1	47·6	+ 6·5	39	0	7	1·60	+1·03	8·5	−12·0	10	−14
	Ardrossan	52	36	49·9	43·9	46·8	+ 4·7	34	0	7	1·15	+0·57	*	*	*	*
	Glenlee Ⓢ	55	40	52·5	41·4	46·8	+ 6·1	36	2	7	3·22	+2·34	*	*	*	*
	Gilcrux (Cumberland)	54	42	51·3	44·5	47·8	+ 7·7	41	0	7	1·64	?	9·4	?	11	?
	Douglas (Isle of Man)	55	44	52·4	45·4	48·8	+ 6·5	48	0	7	2·40	+1·71	22·8	− 7·8	27	−10
7. ENGLAND, N.W.	Stonyhurst	55	43	52·2	44·8	48·4	+ 6·6	45	0	7	1·04	+0·29	13·4	−11·1	16	−13
	Blackpool Ⓜ	57	44	53·3	45·1	49·1	+ 6·8	50	0	5	0·69	+0·15	15·5	− 8·0	18	−10
	Manchester (Prestwich)	59	39	55·6	45·1	50·2	+ 7·8	57	0	6	1·06	+0·50	14·1	?	16	?
	Liverpool Obsy. (Bidston)	58	46	55·6	46·9	51·1	+ 8·2	64	0	4	0·31	−0·14	*	*	*	*
	Llandudno Ⓜ	62	45	55·6	46·8	51·1	+ 6·9	64	0	3	0·34	−0·15	*	*	*	*
	Holyhead	54	44	51·3	44·9	48·0	+ 4·1	42	0	5	0·74	+0·23	*	*	*	*
8. ENGLAND, S.W.	Llandovery	59	41	56·3	44·7	50 3	+ 6·8	58	0	7	1·60	+0·83	*	*	*	*
	Pembroke	50	42	49·0	45·4	47·2	+ 3·2	36	0	5	1·12	+0·58	18·5	−13·4	22	−16
	Clifton	59	46	55·4	47·1	51·1	+ 7·5	64	0	4	0·21	−0·34	*	*	*	*
	Arlington (N. Devon)	59	44	52·6	45·3	48·8	+ 7·7	48	0	6	0·84	+0·06	*	*	*	*
	Cullompton Ⓜ	60	45	57·1	47·4	52·1	+ 7·4	71	0	3	0·20	−0·28	21·6	− 7·9	25	−10
	Falmouth	55	45	53·8	47·2	50·4	+ 5·5	59	0	4	0·37	−0·28	18·7	−13·8	22	−17
	Plymouth	57	46	52·9	46·7	49·7	+ 4·6	54	0	6	0·41	−0·17	16·5	−15·3	19	−19
	Prawle Point	51	44	49·6	45·4	47·4	+ 3·5	38	0	5	0·33	−0·12	*	*	*	*
9. IRELAND, N.	Malin Head	54	43	51·3	44·9	48·0	+ 4·9	42	0	7	0·98	?	*	*	*	*
	Londonderry	58	36	54·8	43·3	48·9	+ 5·3	48	0	7	1·19	+0·52	*	*	*	*
	Edenfel (Omagh)	56	41	52·9	44·6	48·6	+ 7·3	46	0	7	1·12	+0·62	*	*	*	*
	Belmullet	53	43	51·4	44·9	48·1	+ 3·6	43	0	6	1·74	+0·91	*	*	*	*
	Markree Castle	59	42	55·0	45·7	50·2	+ 7·2	57	0	7	1·21	+0·61	19·6	− 4·4	23	− 6
	Armagh	59	43	55·4	46·1	50·6	+ 8·3	60	0	7	1·15	+0·71	21·7	− 2·1	25	− 3
	Donaghadee	58	43	54·4	44·7	49·4	+ 5·8	52	0	6	1·00	+0·48	*	*	*	*
	Edgeworthstown	59	41	54·7	44·4	49·4	+ 8·1	52	0	6	0·66	+0·03	*	*	*	*
10. IRELAND, S.	Dublin	62	46	58·2	47·8	52·9	+ 8·2	76	0	6	0·27	−0·20	28·9	− 0·1	34	− 1
	Parsonstown	61	43	55·7	44·6	50·0	+ 6·7	56	0	6	0·59	+0·04	23·2	− 3·0	27	− 5
	Kilkenny	58	43	55·4	45·0	50·1	+ 6·0	57	0	5	0·69	+0·19	*	*	*	*
	Roche's Point	56	45	52·6	46·9	49·7	+ 4·1	54	0	6	1·30	+0·57	*	*	*	*
	Valencia	55	47	53·4	47·9	50·6	+ 3·9	60	0	7	1·72	+0·92	16·1	−14·9	19	−18
	Killarney	58	41	55·1	45·9	50·4	+ 5 3	59	0	5	1·75	?	*	*	*	*
	Foynes	?	41	?	45·0	?	?	?	?	4	0·60	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	47	54·3	47·9	51·0	+ 4·4	63	0	5	0·20	−0·33	22·2	?	26	?
	Jersey	57	43	55·7	46·7	51·1	+ 5·2	64	0	3	0·07	−0·50	25·8	−11·0	30	−14

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

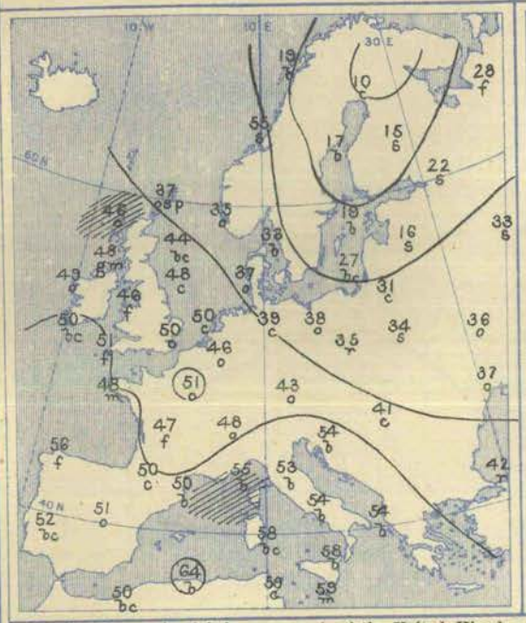
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 21st March.

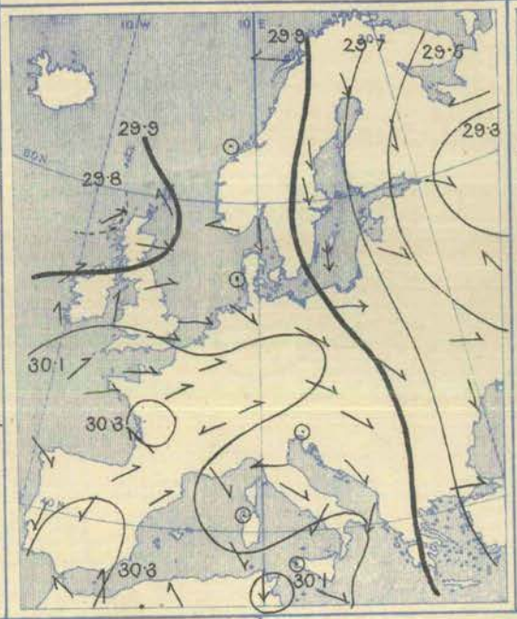
Temperature and Weather.

8 a.m.

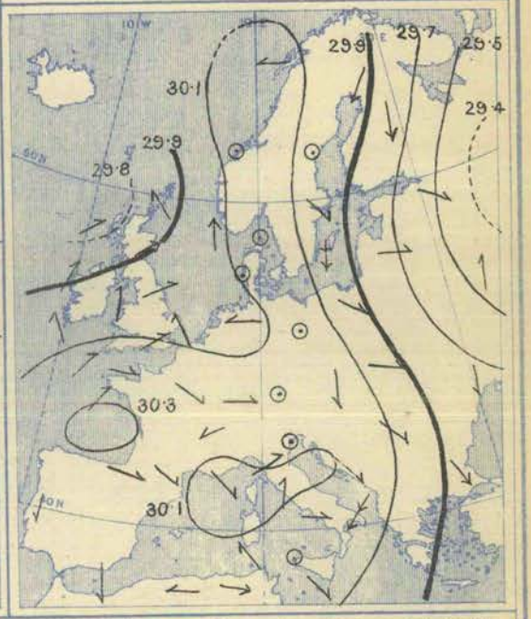


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair in many parts of the United Kingdom but foggy on our western and southern coasts, and showery at some of the Scotch stations, with snow at Sumburgh Head. Fine over southern Europe generally as well as at most of the Scandinavian stations; dull over the central and eastern countries, with rain in the eastern parts of Germany and Austria and snow at many of the Russian stations, as well as at Christiansund. Rain falling later in all but the north-eastern parts of our Islands, but quantity mostly slight.

Temperature risen in all the more northern parts of the United Kingdom, but fallen at our southern and most of the Continental stations. Morning readings highest, 64° at Algiers, 63° at Sfax, and 60° at San Fernando and La Calle; above 50° over southern Europe generally, as well as at one or two of the English stations. Lowest, 10° at Haparanda, 12° at Uleaborg, 15° at Kuopio, and 17° at Hernösand; below the freezing point over northern Europe generally. Rising during day to 60° and upwards over the inland parts of Ireland and England, and to 64° at Cambridge; exceeding 70° over Spain and the southern parts of France and Italy, and reaching 78° at Perpignan.

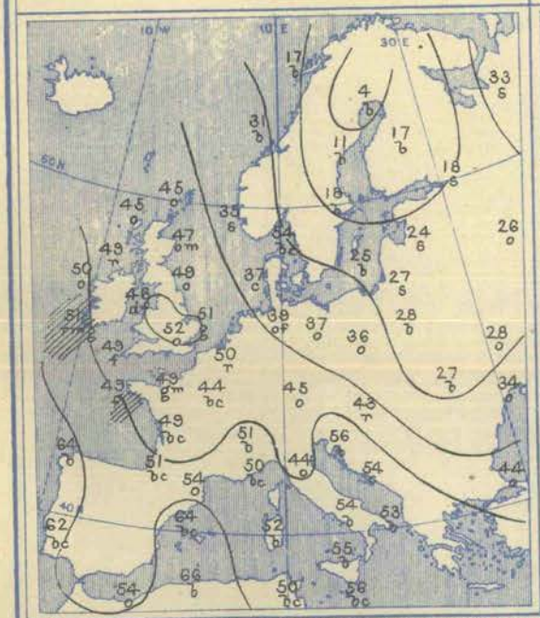
Wind light from between West and South-West over the greater part of our Islands, the Netherlands and the north of France, but Southerly at many of the Irish stations; calm or Easterly on the eastern shores of the North Sea. Northerly in Sweden, with a gale at Wisby; North-Westerly over western Russia, Germany and Austria; variable over Italy and the south of France; North-Easterly at most of the Spanish stations. Subsequently backing to the Southward in the western parts of our Islands generally; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards over Morocco, and the southern and central parts of Spain; 30·1 ins. and upwards in an anticyclone embracing all the south-western parts of Europe, including the south of England. Lowest, 29·3 ins. and less in a large depression over northern Russia; 29·8 ins. and less in a shallow area off the north-west of Scotland. Russian depression subsequently moving eastwards; no important change occurring over western Europe.

Monday, 22nd March.

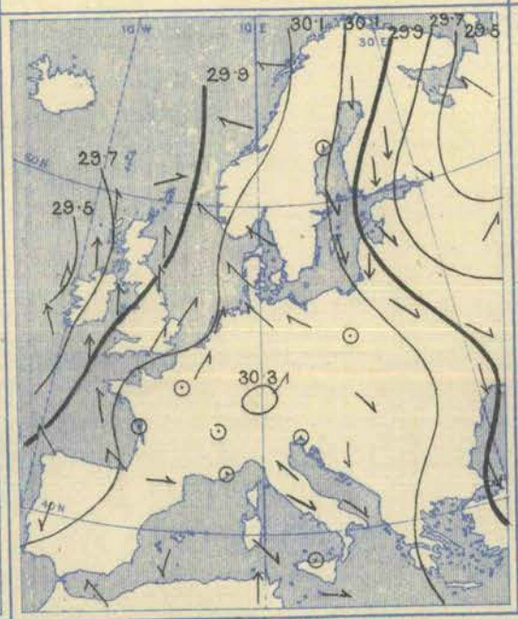
Temperature and Weather.

8 a.m.

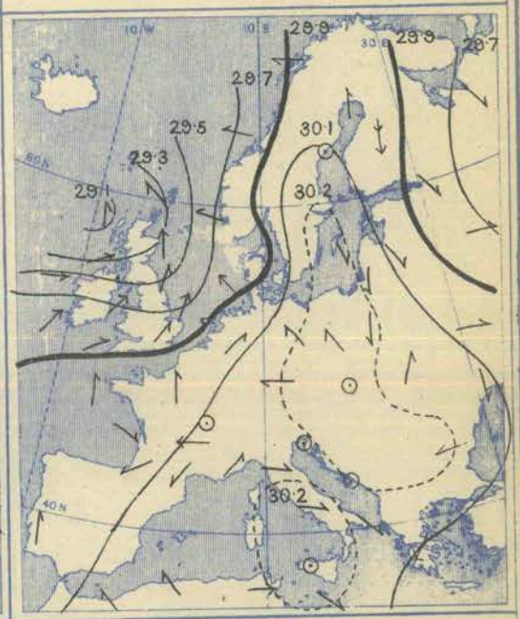


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over our Islands generally, with fog in the English Channel, and with rain on most parts of our western coasts. Fine in many of the Continental countries, but dull over the Netherlands, Germany, Austria, and the western and central parts of Russia; rain falling at Brussels and Vienna, and snow at Archangel and St. Petersburg, Riga and Memel. Rain falling later in the west and north of our Islands generally, and also in Denmark and north Germany; solar halos seen at Jersey and Oxford.

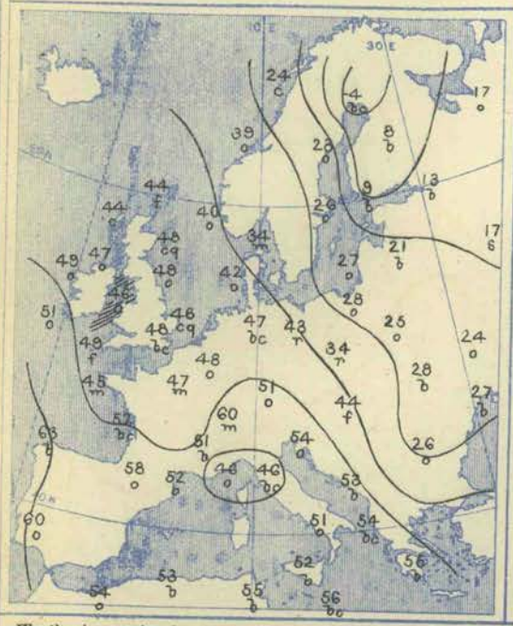
Temperature risen slightly in our Islands, fallen in many of the Continental countries. Morning readings highest, 66° at Algiers, 64° at Corunna and Barcelona, and 62° at Lisbon; above 55° at several of the Mediterranean and Spanish coast stations. Lowest, 4° at Haparanda, 11° at Hernösand, 14° at Uleaborg, and 16° at Hangö; below the freezing point over nearly the whole of Scandinavia and Russia. Rising during day to 55° and upwards in many parts of Great Britain, and to 59° at Cambridge, reaching 67° at Paris, 70° and upwards over Spain and the extreme south of France, 82° at Biarritz, and 86° at Bilbao.

Wind Southerly in our Islands and the north of France, and strong in force at some of the Irish stations; South-Easterly on the eastern shores of the North Sea. Northerly or North-Westerly over Sweden, Russia, Austria, and Italy, and strong in force over the northern parts of the Baltic. Calm or variable over the southern parts of France, Easterly or North-Easterly over the Spanish Peninsula. Subsequently veering to the Westward in most parts of our Islands, and increasing to a fresh or strong gale on all our more northern coasts.

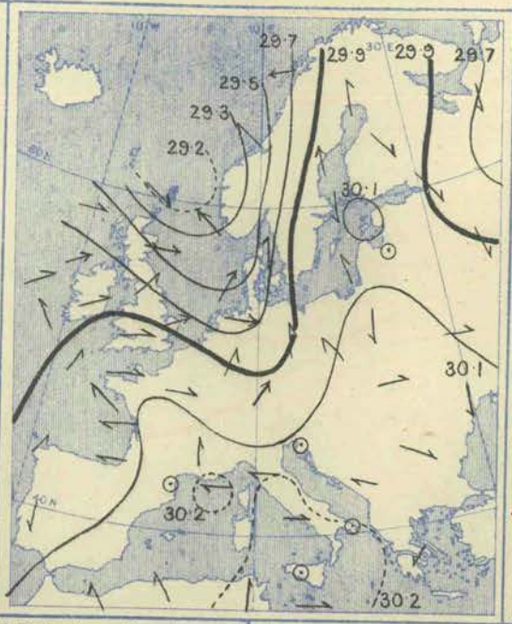
Barometer highest, 30·2 ins. and upwards in an anticyclone of irregular form, stretching from the Mediterranean across the more central parts of the Continent to the southern half of Sweden. Lowest, 29·5 ins. and less in a depression over Russia, 29·6 ins. and less in another disturbance lying to the west of our Islands. Latter disturbance subsequently advancing to the north of Scotland, and barometer falling very quickly on our northern coasts.

Tuesday, 23rd March.

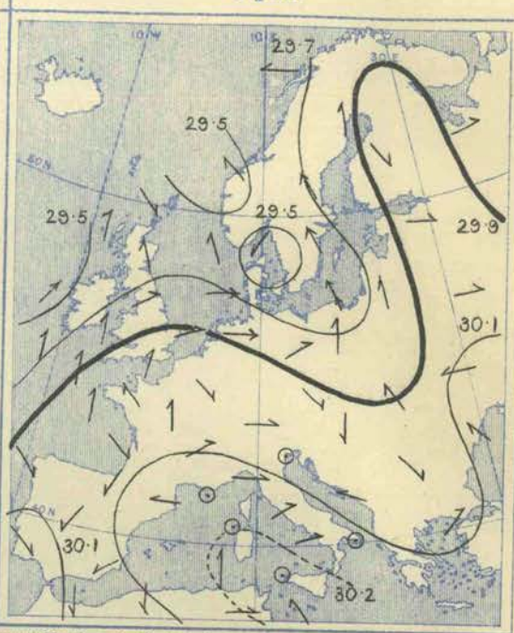
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the central and south-eastern parts of England as well as in many parts of France, Italy, and Russia. Cloudy or dull in most other places, with fog or mist on our own south and south-west coasts, rain over the eastern and central parts of Germany, and snow at Faerder, Karlsbad, Copenhagen, and Moscow. A little rain falling later in the west and extreme north of our Islands and also on the eastern shores of the North Sea and in Austria. Solar halo seen at Oxford.

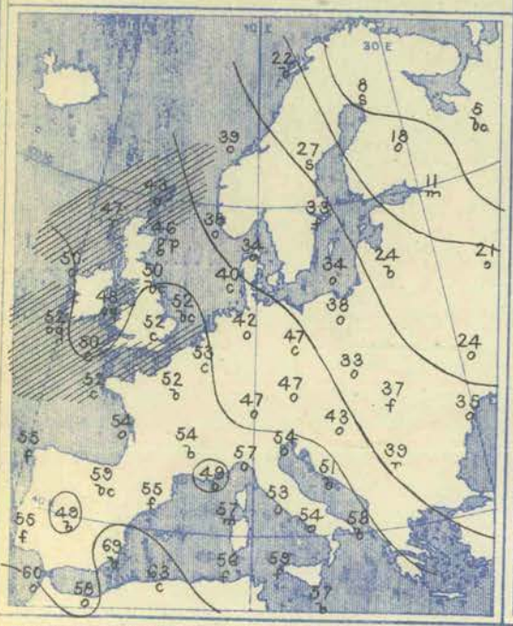
Temperature fallen in England and also in Russia, Spain, and the south of France; risen elsewhere. Morning readings highest, 63° at Corunna, 61° at San Fernando, 60° at Lisbon, and 58° at Biarritz; above 50° in most parts of southern Europe. Lowest, −4° Fahr. at Haparanda, +4° at Uleaborg, 8° at Kuopio, and 9° at Hangö; below the freezing point over northern and eastern Europe generally. Rising during day to 55° and upwards in most parts of the United Kingdom, to 60° at Cambridge and the North Foreland, and to 64° in London; exceeding 70° over Spain and the southern parts of France and Italy and reaching 82° at Madrid.

Wind strong to a gale from between North and West in the north-east of Scotland; light to fresh from the South-Westward over England and the southern parts of the North Sea. Southerly or South-Easterly over Scandinavia, Denmark, and the Baltic, with a gale at Skagen and Swinemünde. Light from the Eastward over the Bay of Biscay, and from the Southward on our own extreme south-west coasts; very variable over southern Europe generally, light from the Northward or North-Westward at most of the Russian stations. Subsequently shifting to the Southward in all parts of our Islands, and blowing strongly in the north-west.

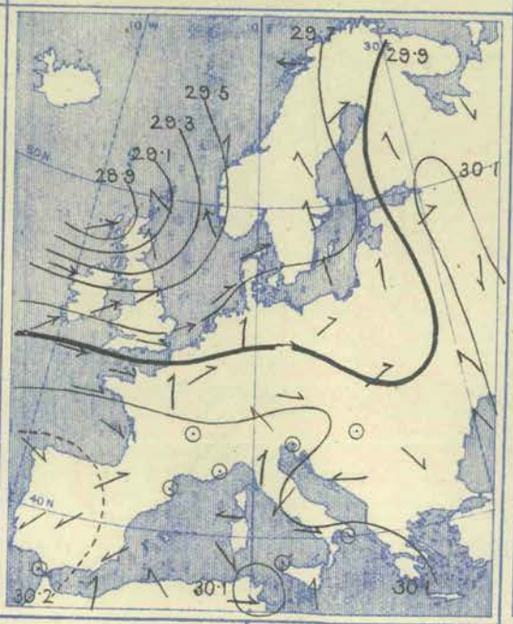
Barometer highest, 30·2 ins. and upwards over Italy, Tunis, and the neighbouring parts of the Mediterranean; 30·1 ins. and upwards in an anticyclone embracing the greater part of southern and south-eastern Europe. Lowest, 29·2 ins. and less in a depression lying between the Shetlands and Norwegian coast; 29·7 ins. and less in a shallow area over northern Russia. Well-marked secondary appearing later over Denmark; new and large depression approaching our own western coasts.

Wednesday, 24th March.

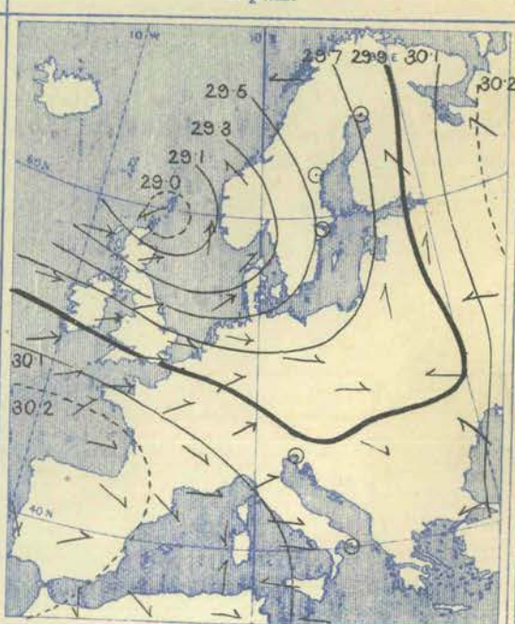
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine at most of the English, French, and Spanish stations, and also over the Adriatic. Cloudy or dull in nearly all other parts of Europe, with rain in Scotland, as well at Swinemünde and Hernösand, and snow in the northern parts of Sweden and Finland. Fog reported at several of the Mediterranean and Spanish coast stations. A little rain falling later in the extreme west and north of our Islands, and also in Denmark, Germany, and Austria; solar halos seen at Scilly and Jersey.

Temperature risen in most places. Morning readings highest, 63° at Algiers, 60° at San Fernando, and 59° at Biarritz, Nemours, Oran, and Palermo; above 50° in several parts of England and Ireland. Lowest, 5° at Archangel, 8° at Uleaborg, and 11° at St. Petersburg; below the freezing point in many parts of Russia and Scandinavia. Rising during day to 55° and upwards in many parts of our Islands, and to 60° at Aberdeen, London, and the North Foreland. Exceeding 70° at many stations in Spain and the south of France, and reaching 81° at Gap, Perpignan, and Madrid; maximum at Nice only 55°.

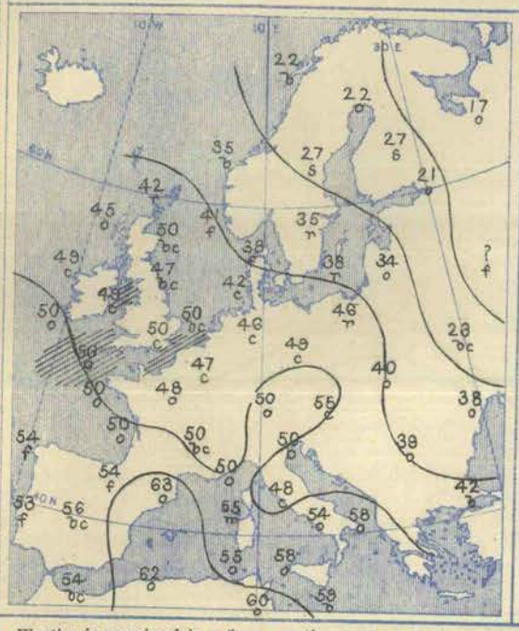
Wind fresh or strong from the Westward or South-Westward over the greater part of the United Kingdom. Light or moderate from the same quarters over the neighbouring parts of the Continent. Southerly or South-Easterly in the north-east of Scotland as well as in Scandinavia and western Russia, calm or variable over southern Europe as a whole, but North-Easterly at most of the Spanish stations. Subsequently veering to the Westward in all parts of our Islands, and increasing to a gale on several parts of our north and north-west coasts.

Barometer highest, 30·2 ins. and upwards over the Spanish Peninsula; 30·1 ins. and upwards in an anticyclone embracing the greater part of southern Europe, and also in another system over Russia. Lowest, 28·9 ins. and less in a well-marked depression lying off the north-west of Scotland; 29·65 ins. and less in a shallow system over the south of Sweden. Depression off Scotch coasts subsequently moving eastwards and barometer rising in all parts of our Islands. Shallow disturbance over the south of Sweden breaking up.

Thursday, 25th March.

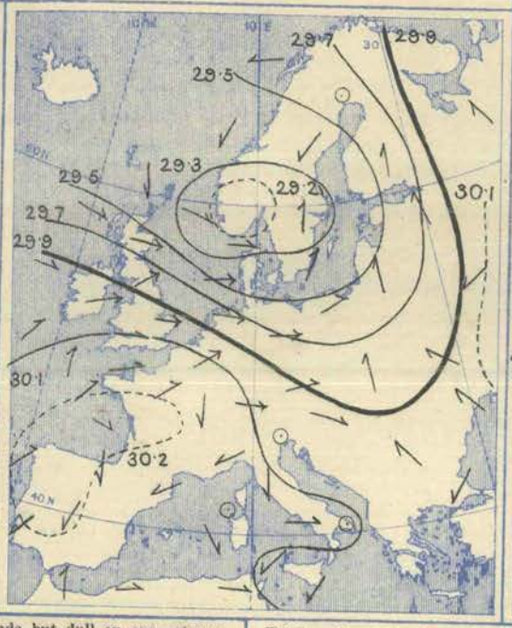
Temperature and Weather.

8 a.m.

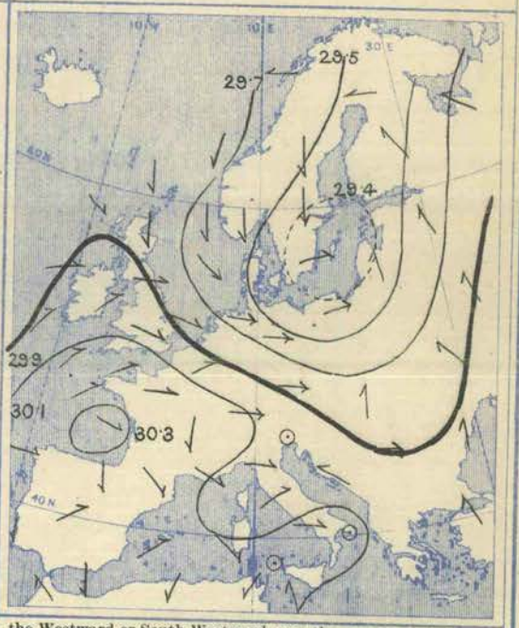


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands, but dull on our extreme south-western, western and northern coasts, with rain at Sumburgh Head and Malin Head. Fine in the west of Norway and also in Spain and southern Italy; cloudy in other parts of the Continent, with fog and rain over Denmark, the Baltic, and the south of Scandinavia, and with snow at Kuopio and Hernösand. Fog setting in later on our own south-west coasts; rain falling in the west and north of our Islands, as well as in Germany, and snow in Finland and Lapland.

Temperature fallen in our Islands, France and Italy, but risen elsewhere. Morning readings highest, 63° at Perpignan, 62° at Algiers, 61° at Sfax, and 60° at Barcelona; above 55° at most of the Mediterranean stations and touching 50° in some parts of our own Islands. Lowest, 17° at Archangel, 21° at St. Petersburg, and 22° at Bodö, Haparanda and Kharkov; below the freezing point in most parts of Russia and the north of Scandinavia. Rising during day to 55° and upwards in many parts of the United Kingdom, and to 60° in London. Exceeding 70° over the Spanish Peninsula and the southern parts of France and Italy.

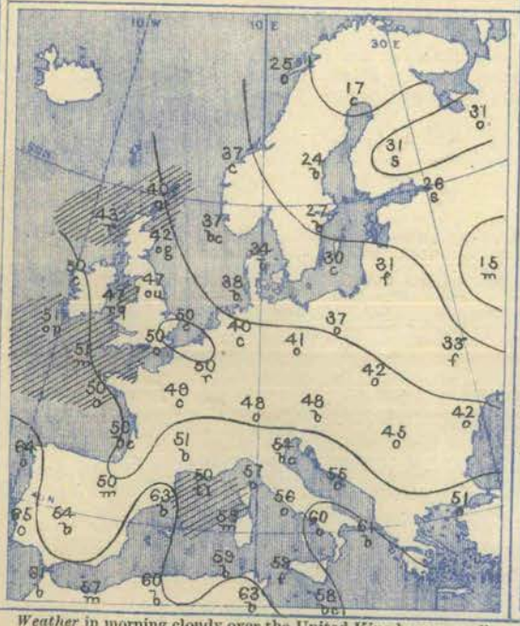
Wind moderate to strong from the Westward or South-Westward over the greater part of our Islands and also over Denmark, Germany, the Netherlands and the north of France, but light from the Southward on our own extreme south-west coasts. Light to moderate from the Southward or South-Eastward over Sweden and northern Russia; Easterly or North-Easterly over the northern parts of Scandinavia. Light and variable in Austria and Italy; Easterly or North-Easterly over the Spanish Peninsula and the extreme south of France. Subsequently veering to the North-Westward on the eastern shores of the North Sea, but backing to the Southward on most parts of our own western coasts.

Barometer highest, 30·3 ins. and upwards over the northern and central parts of Spain and the southern part of the Bay of Biscay; 30·1 ins. and upwards in an anticyclone extending from southern Europe over France and the extreme south of England and also in another system over central Russia. Lowest, 29·2 ins. and less in a well-marked depression over the south of Norway. Depression subsequently moving eastwards to the northern part of the Baltic but new disturbance beginning to approach our own western coasts in evening.

Friday, 26th March.

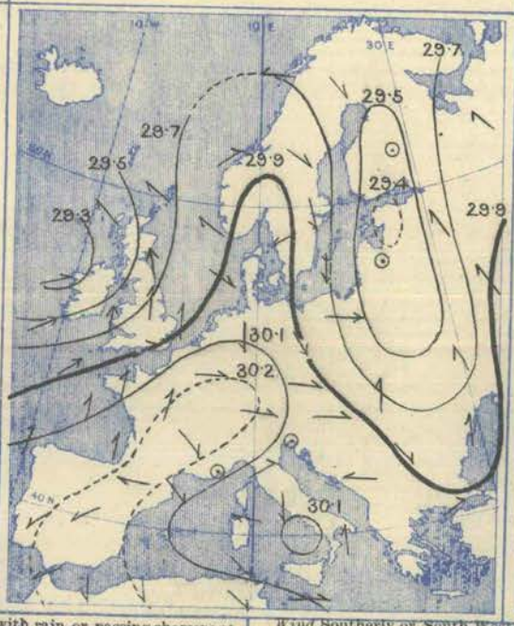
Temperature and Weather.

8 a.m.

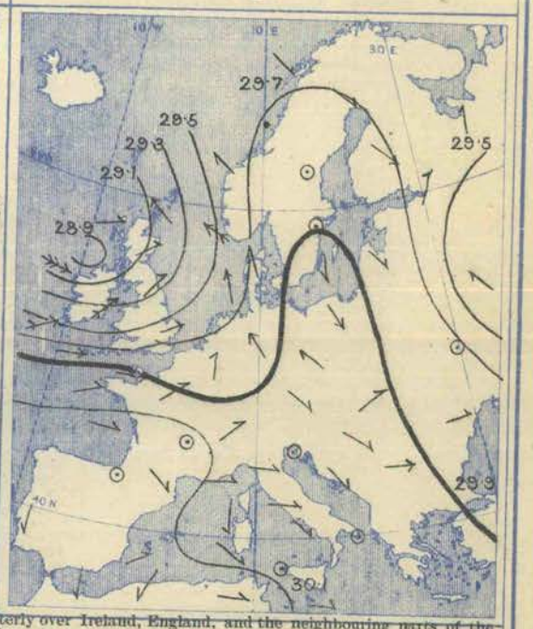


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over the United Kingdom generally, with rain or passing showers at many of our western and northern stations. Fine in Scandinavia and Denmark, as well as over Spain and the southern part of France and Italy, dull in all other parts of the Continent, with rain over eastern Germany, as well as at Nicolaieff and snow in Finland. Rain falling later in the west and north of our Islands generally and also in Denmark and Germany, but amounts mostly small. Solar halos seen at Oxford and thunderstorm occurring at Spurn Head.

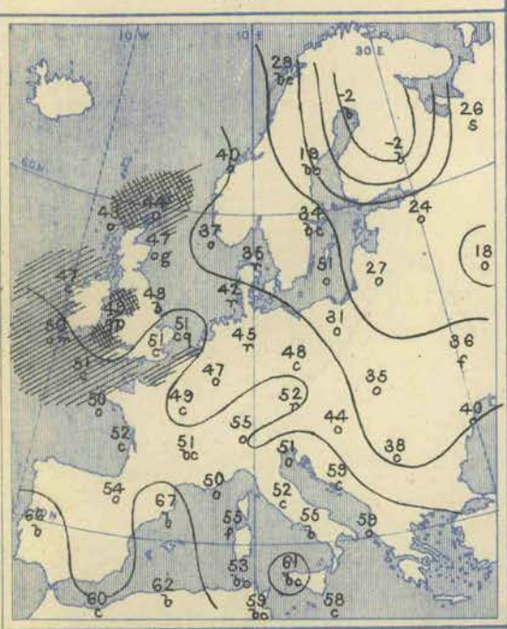
Temperature fallen in the north of our Islands and also in Scandinavia, Denmark, and Germany; risen elsewhere. Morning readings highest, 65° at Lisbon, 64° at Corunna, 63° at Barcelona and Tunis, and 61° at San Fernando; above 50° at some of our own south-western stations. Lowest, 15° at Moscow, 17° at Haparanda, 24° at Hernösand, and 25° at Bodö, below the freezing point over Sweden and Russia generally. Rising during day to 55° and upwards in many parts of the United Kingdom, and reaching 61° at Loughborough. Exceeding 70° in Italy and the south of France, and touching 81° at Perpignan and also at Lisbon.

Wind Southerly or South-Westerly over Ireland, England, and the neighbouring parts of the Continent, and strong in force on our western coasts; moderate to fresh from the South-Eastward in Scotland, and from the same quarter or from East in the west of Norway. Northerly or North-Westerly in Sweden, Denmark, and north Germany, with a gale at Wisby. Westerly over eastern Germany and Austria; Southerly over the central and southern parts of Russia. Variable in Italy and the south of France, North-Easterly at most of the Spanish stations. Subsequently increasing to a gale from the South-Eastward in the east of Scotland and from the South-Westward or Westward over Ireland and England.

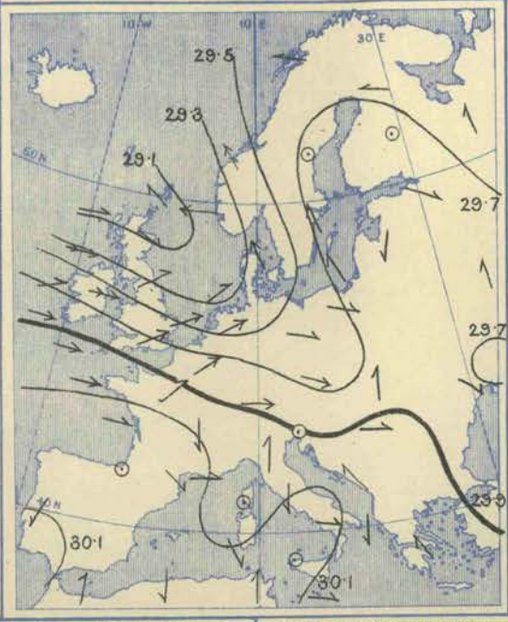
Barometer highest, 30·2 ins. and upwards over Algeria, Spain, and the southern parts of France and Germany; 30·0 ins. and upwards in an anticyclone embracing the greater part of central and southern Europe. Lowest, 29·3 ins. and less in a depression lying off our extreme north-west coasts; 29·4 ins. and less in another disturbance over the Gulf of Finland. Depression in north-west subsequently moving northwards, but new and deeper disturbance approaching the north of Ireland, and afterwards travelling north-eastwards across Scotland.

Saturday, 27th March.

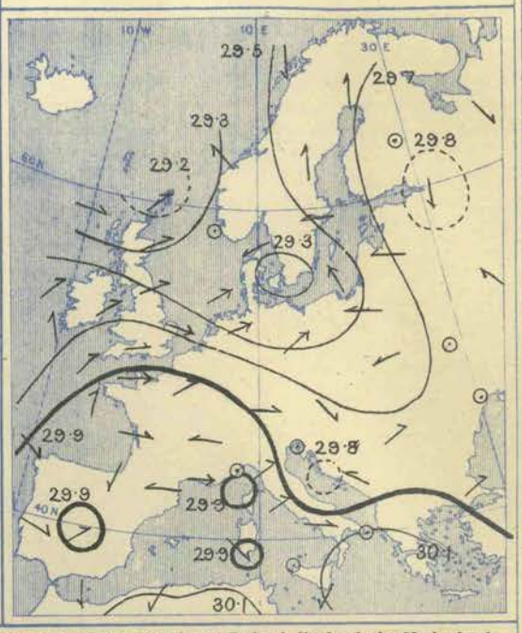
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with passing showers on our own north-west coasts, steady rain in many parts of Denmark and Germany, and snow at Faerder and Archangel. Fine in the south-west of our Islands as well as in Sweden, Finland, Spain, and the south of Italy. Rain falling later over nearly the whole of north-western Europe—heavily in Ireland and Wales. Solar halo seen at Oxford.

Temperature risen in the western and central countries, but fallen elsewhere. Morning readings highest, 68° at Perpignan, 67° at Barcelona, 66° at Lisbon, and 62° at Algiers; above 55° at several of the Mediterranean and Spanish coast stations, and above 50° in some parts of the south and east of England. Lowest, −2° Fahr. at Uleaborg and Kuopio, +15° at Hangö and Helsingfors, and 18° at Moscow; below the freezing point in most parts of Russia and Scandinavia. Rising during day to 55° and upwards at many of the English stations; exceeding 70° in several parts of southern Europe, and reaching 82° at Lisbon and 84° at Madrid and Perpignan.

Wind strong from the Westward and South-Westward over Ireland, England, the Netherlands, and Germany, with a gale on our north-west coasts; light and moderate from the Westward in Scotland. South-Easterly over Sweden, Denmark, and the Baltic; Easterly in Norway, and strong in pace in the south. Calm in Austria; variable in Italy and also in the south of Russia; North-Easterly on the Portuguese coasts. Wind moderating later over England and Ireland, and backing to the Southward on our extreme west and south-west coasts.

Barometer highest, 30·1 ins. and upwards in an anticyclone, embracing the greater part of southern Europe. Lowest, 29·0 ins. and less in a depression lying off the north of Scotland, with a secondary system over the North Sea. Main depression partially filling up later, but secondary system becoming more clearly developed and passing on to Denmark. New disturbance appearing off the Irish coasts in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of this week anticyclonic conditions were prevalent over south-western and southern Europe, whence a ridge spread northwards, first over the North Sea, and afterwards over the Baltic and Finland. Westerly and South-Westerly winds were prevalent over western Europe, and fine weather prevailed over France and England, but rain on our western and northern coasts.

Late on Thursday, however, depressions again began to spread over the British Isles and north-western Europe from the Atlantic, and these brought rainy, squally, unsettled weather again to most districts, and strong South-Westerly to Westerly gales were felt over Ireland, England, and the northern coasts of France.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 68.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
EDINBURGH	20·0	− 2·6	23	−4	EASTBOURNE	23·6	− 9·1	27	−12
OSWALDKIRK (Yorkshire)	20·6	− 6·1	24	−8	VENTNOR	19·0	?	22	?
WORKSOP	13·2	−10·8	15	−14	SOUTHPORT	25·9	?	30	?
THURCASTON (Leicestershire)	23·9	+ 0·9	28	0	COLWYN BAY	29·7	?	35	?
MARGATE	24·6	− 3·9	29	−5	NEWQUAY	26·8	− 5.9	31	−8
WESTBOURNE (Sussex)	33·9*	+ 1·4	39*	0	TORQUAY	30·5*	− 2·5	35*	−5
BRIGHTON	29·7	− 9·8	24	−13	GUERNSEY	30·9*	− 4·6	36*	−7

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Lt.d, Lith, 63, Carter Lane, Doctors' Commons.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIV. No. 13.] *Third Series.* WEEK ENDING SATURDAY, APRIL 3RD, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 74.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	18	40·5	28·2	34·1	7 below	0	−13	55	+22	91	− 8	492	− 6
	1. SCOTLAND, EAST	49	13	41·4	27·6	34·3	7 below	0	−18	54	+21	119	− 14	529	− 2
	2. ENGLAND, N.E.	55	25	43·1	31·9	37·4	5 below	3	−16	35	+ 7	169	+ 34	400	− 62
	3. ENGLAND, EAST	58	25	47·8	33·6	40·5	3 below	16	− 7	32	+ 2	212	+ 44	418	−104
	4. MIDLAND COUNTIES	57	25	46·9	33·5	40·0	3 below	14	−14	32	+ 1	219	+ 36	426	− 94
	5. ENGLAND, SOUTH	57	29	49·3	37·6	43·3	1 below	28	+ 2	12	−12	246	+ 47	277	−140
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	50	23	43·5	30·5	36·8	6 below	4	−13	40	+15	135*	− 10	365	− 16
	7. ENGLAND, N.W.	52	26	44·3	34·6	39·3	5 below	6	−13	26	+ 2	173	+ 31	322	− 66
	8. ENGLAND, S.W.	57	25	49·0	36·9	42·8	2 below	27	+ 2	14	− 5	269	+ 43	206	−110
	9. IRELAND, NORTH	50	24	44·7	31·6	37·9	6 below	8	−15	37	+15	185	− 9	331	0
	10. IRELAND, SOUTH	54	24	47·8	34·9	41·1	5 below	16	−13	27	+10	311	+ 30	231	− 23
	—CHANNEL ISLANDS	57	36	52·5	42·6	47·4	0 (average)	38	+ 8	0	− 7	405	+106	68	− 71

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 74.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	3	4 less	65	0	11·1	− 2·6	41	+17	45	+18	156	− 8	19	− 1
	1. SCOTLAND, EAST	4	5	0 (average)	57	+ 8	6·7	− 0·8	36	+ 9	40	+ 9	174	− 35	21	− 4
	2. ENGLAND, N.E.	5	6	2 more	59	+12	6·4	+ 0·9	34	+ 6	37	+ 4	195	− 12	22	− 2
	3. ENGLAND, EAST	4	3	1 less	57	+11	7·1	+ 1·8	25	− 5	29	− 7	213	− 24	24	− 3
	4. MIDLAND COUNTIES	4	4	1 less	54	+10	7·9	+ 1·7	28	− 1	31	− 2	203	− 16	23	− 2
	5. ENGLAND, SOUTH	4	8	3 more	52	+ 9	9·3	+ 2·4	29	− 4	32	− 6	219	− 24	24	− 4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	3	5 less	58	+ 4	11·1	− 2·1	36	+ 7	41	+ 6	186	− 13	22	− 1
	7. ENGLAND, N.W.	3	5	1 less	61	+12	8·0	+ 0·3	34	+12	38	+12	181	− 24	21	− 2
	8. ENGLAND, S.W.	6	12	6 more	65	+15	13·1	+ 3·5	33	− 2	37	− 3	228	− 38	25	− 5
	9. IRELAND, NORTH	4	3	3 less	66	+ 9	9·6	+ 0·6	30	+ 4	33	+ 3	206	+ 2	24	+ 1
	10. IRELAND, SOUTH	4	9	3 more	61	+ 9	11·7	+ 1·7	32	+ 1	36	0	237	− 9	27	− 1
	—CHANNEL ISLANDS	5	17	11 more	70	+15	11·8	+ 3·4	36	− 2	41	− 4	239	− 62	27	− 6

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very changeable; fine and bright intervals alternating with considerable falls of rain, sleet, or wet snow.

Temperature just equalled the mean in the Channel Islands, and was only 1° below it in England S.; in the other districts, however, the deficit was greater, that in England N.W. and N.E. being 5°, that over Ireland 5° or 6°, while that over Scotland ranged from 6° to 7°. The highest of the maxima were recorded on March 28th, when the thermometer rose to 58° in England E. and 57° in several of the other English districts and in the Channel Islands, to 49° in Scotland E., and 47° in Scotland N. The lowest of the minima, which were registered on March 30th, were very low for the time of year. They ranged from 13° in Scotland E., and 18° in Scotland N., to 23° in Scotland W., 24° over Ireland, and to 29° in England S. In the Channel Islands the thermometer did not fall below 36°

Rainfall was greatly in excess of the mean in England S.W. and the Channel Islands and rather considerably so in England S., England N.E., and Ireland S. In Scotland E. the fall was just equal to the normal, while in all the other districts it was deficient.

Bright Sunshine exceeded the mean value in Scotland and the northern parts of England and Ireland, but was somewhat deficient in most other parts of the Kingdom. The percentage of the possible duration ranged from 45° in Scotland N. and 41° in Scotland W. and the Channel Islands to 31° in the Midland Counties, and 29° in England E.

Barometer and Wind.—Several well-marked depressions appeared over the United Kingdom during this period, some passing over the northern, and others over the southern districts, and were separated by well-marked anticyclonic systems. The winds consequently varied a great deal both in direction and force, but occasionally blew strongly, especially from the South-Eastward and North-Westward.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 73 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		*	*	*	*	*	*	*	*		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	44	27	38·6	30·1	34·2	- 5·6	0	55	5	0·31	- 0·23	*	*	*	*
	Stornoway	43	26	40·0	29·4	34·5	- 6·5	0	53	6	0·61	- 0·12	46·3	+20·2	50	+19
	Wick	44	?25	39·9	30·4	35·0	- 5·9	0	49	6	0·53	+0·15	*	*	*	*
	Lairg Ⓢ	45	18	41·9	24·1	32·7	7·4	0	65	5	0·31	- 0·33	*	*	*	*
	Glencarron Ⓢ	43	21	38·9	25·2	31·7	- 8·4	0	72	4	0·32	- 0·85	*	*	*	*
	Fort Augustus Ⓢ	45	20	42·0	27·4	34·5	- 6·6	0	53	4	0·18	- 0·30	33·6	+13·8	37	+15
	Fort William Ⓢ	47	26	42·2	30·6	36·2	- 5·8	1	39	1	0·02	- 0·88	43·3	+18·7	48	+19
1. SCOTLAND, E.	Nairn	45	23	42·0	28·4	35·0	- 6·6	0	49	3	0·21	- 0·07	*	*	*	*
	Aberdeen	44	26	40·6	30·6	35·5	- 6·4	0	46	5	0·73	+0·23	50·2	+20·2	56	+21
	Braemar Ⓢ	42	13	36·1	22·1	28·9	- 9·7	0	92	4	0·37	- 0·11	25·0†	- 2·8†	28†	- 4†
	Ochtertyre Ⓢ	49	22	45·7	27·1	36·1	- 5·7	10	53	1	0·09	- 0·56	*	*	*	*
	Leith	46	27	43·6	30·3	36·8	- 6·1	4	41	5	0·61	+0·23	*	*	*	*
	Marchmont Ⓢ	43	21	40·1	26·9	33·3	- 7·5	0	61	5	0·70	+0·12	34·8	+ 9·3	39	+ 9
2. ENGLAND, N.E.	Alnwick Castle	52	25	42·5	30·2	36·2	- 4·9	1	41	7	1·16	+0·62	*	*	*	*
	Durham	49	25	42·5	28·1	35·1	- 7·0	1	48	5	0·43	- 0·09	32·9	+ 5·6	37	+ 4
	Shields	44	25	41·7	31·4	36·4	- 5·7	0	39	4	0·60	+0·18	*	*	*	*
	Scarborough Ⓜ	53	30	42·9	34·3	38·5	- 4·5	3	27	4	0·67	+0·20	*	*	*	*
	York	55	26	44·4	31·1	37·6	- 5·6	7	39	5	0·50	+0·06	33·5	+ 6·5	37	+ 6
	Spurn Head	54	33	44·6	36·3	40·3	- 2·1	7	21	5	0·43	+0·09	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	56	27	47·0	33·2	39·9	- 4·1	14	33	5	0·42	+0·02	26·1	- 2·1	29	- 5
	Yarmouth	56	30	45·6	34·6	39·9	- 2·5	10	27	4	0·28	- 0·17	*	*	*	*
	Geldeston	57	25	48·8	33·2	40·8	- 2·7	19	34	4	0·24	- 0·16	26·5	- 5·5	30	- 8
	Cambridge	58	26	50·1	33·1	41·4	- 2·6	23	35	3	0·29	- 0·08	25·4	- 5·9	29	- 7
	Rothamsted	55	26	47·4	33·9	40·5	- 2·6	15	31	3	0·42	- 0·03	22·8	- 7·3	26	- 9
4. MIDLAND COUNTIES	Harrogate Ⓜ	51	25	43·2	31·4	37·0	- 5·4	3	36	4	0·36	?	34·2†	?	38†	?
	Bawtry (Hesley Hall)	57	25	47·1	32·9	39·8	- 3·7	14	34	3	0·30	- 0·14	*	*	*	*
	Loughborough	56	25	47·3	33·0	39·9	- 4·1	15	33	4	0·26	- 0·18	*	*	*	*
	Stamford (Duddington)	56	25	47·7	34·0	40·7	- 3·1	16	31	4	0·18	- 0·22	*	*	*	*
	Cheadle Ⓜ	52	28	44·5	32·2	38·2	- 4·3	7	35	4	0·33	- 0·21	*	*	*	*
	Shirley (near Solihull)	54	27	46·0	33·9	39·8	- 3·0	11	30	4	0·46	?	*	*	*	*
	Churchstoke Ⓜ															
	Hereford Ⓜ	56	25	?50·2	?35·4	?42·4	? - 2·3	?31	?18	?6	? 0·44	? 0·00	*	*	*	*
	Cirencester	54	27	47·4	34·0	40·5	- 2·3	15	30	6	0·47	- 0·03	26·9	- 2·2	30	- 4
	Oxford	57	27	48·3	35·0	41·5	- 2·6	18	28	3	0·32	- 0·10	21·3	- 8·0	24	- 11
5. ENGLAND, S.	London	57	29	50·0	36·0	42·8	- 2·0	31	17	3	0·65	+0·25	20·7†	- 2·3†	23†	- 4†
	North Foreland	56	36	48·3	38·9	43·5	+ 0·6	24	9	3	0·47	?	*	*	*	*
	Dungeness	53	32	49·1	38·9	43·9	0·0	26	9	5	0·47	- 0·02	*	*	*	*
	Hastings (St. Leonards)	53	36	49·3	37·4	43·2	- 1·2	28	13	5	1·23	+0·70	28·7	- 6·3	32	- 8
	Southampton	56	32	51·8	37·7	44·5	- 1·1	36	12	4	0·94	+0·46	30·2	- 3·3	34	- 5
	Hurst Castle	52	35	48·9	39·6	44·1	- 0·5	25	7	5	0·93	+0·46	*	*	*	*
	Shaftesbury Ⓜ	52	31	47·4	35·0	40·9	- 2·1	15	26	5	0·81	+0·32	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	47	25	43·4	29·3	36·1	- 7·4	4	44	3	0·07	-1·11	*	*	*	*
	Glasgow	45	28	41·7	30·1	35·7	- 6·5	0	44	2	0·10	- 0·47	35·6	+12·6	40	+15
	Ardrossan	50	28	45·0	30·9	37·7	- 5·4	8	39	3	0·12	- 0·46	*	*	*	*
	Glenlee Ⓢ	45	23	43·7	28·3	35·8	- 6·0	5	48	3	0·39	- 0·46	*	*	*	*
	Gilcrux (Cumberland)	47	24	42·9	30·1	36·3	- 5·7	3	41	4	0·68	?	39·4	?	44	?
	Douglas Isle of Man)	49	30	44·3	34·1	39·1	- 4·0	6	29	3	0·14	- 0·54	33·9	0·0	38	0
7. ENGLAND, N.W.	Stonyhurst	49	26	43·1	32·1	37·4	- 5·4	3	34	2	0·68	- 0·02	39·0	+12·5	43	+12
	Blackpool Ⓜ	48	26	45·3	33·1	38·9	- 4·5	9	31	3	0·17	- 0·37	37·3	+11·8	41	+12
	Manchester (Prestwich)	52	27	43·9	32·3	37·9	- 5·6	5	34	3	0·59	+0·04	29·8	?	33	?
	Liverpool Obsy. (Bidston)	52	30	44·7	36·1	40·3	- 3·6	8	22	3	0·50	+0·04	*	*	*	*
	Llandudno Ⓜ	51	34	44·9	37·2	40·9	- 4·3	8	18	4	0·62	+0·12	*	*	*	*
	Holyhead	48	34	44·1	36·9	40·4	- 4·4	6	19	3	0·37	- 0·13	*	*	*	*
8. ENGLAND, S.W.	Llandovery	55	25	49·3	32·9	40·9	- 3·5	20	36	7	0·73	- 0·01	*	*	*	*
	Pembroke	49	35	45·0	38·3	41·6	- 3·3	8	15	6	0·50	- 0·02	32·5	- 2·2	37	- 3
	Clifton	55	30	48·2	36·3	42·1	- 2·4	25	16	6	0·64	+0·08	*	*	*	*
	Arlington (N. Devon)	51	31	46·4	35 0	40·5	- 1·3	12	26	6	0·91	+0·14	*	*	*	*
	Cullompton Ⓜ	57	31	51·8	37·3	44·3	- 1·4	36	13	6	0·61	+0·13	30·7	- 0·8	34	- 1
	Falmouth	53	35	50·5	39·0	44·6	- 1·0	31	8	6	2·58	+1·95	32·6	- 2·4	37	- 4
	Plymouth	55	34	51·5	39·0	45·1	- 1·3	34	8	5	1·41	+0·83	30·3	- 3·7	34	- 6
	Prawle Point	51	32	49·3	37·7	43·3	- 1·7	27	12	4	2·27	+1·80	*	*	*	*
9. IRELAND, N.	Malin Head	44	32	41·9	33·9	37·8	- 6·1	0	29	3	0·11	?	*	*	*	*
	Londonderry	50	29	45·6	31·7	38·4	- 6·2	10	37	3	0·20	- 0·45	*	*	*	*
	Edenfel (Omagh)	49	24	44·9	30·3	37·4	- 4·9	8	42	5	0·75	+0·17	*	*	*	*
	Belmullet	49	29	46·1	35·7	39·7	- 5·5	11	31	3	0·31	- 0·47	*	*	*	*
	Markree Castle	49	24	45·2	30·1	37·4	- 6·7	9	42	6	0·28	- 0·30	31·0	+ 4·7	24	+ 3
	Armagh	48	25	44·2	28·7	36·2	- 7·0	6	46	4	0·08	- 0·37	28·2	+ 2·3	31	+ 2
	Donaghadee	46	31	44·3	34·4	39·2	- 5·3	6	27	4	0·63	+0·10	*	*	*	*
	Edgeworthstown	49	25	45·2	29·8	37·3	- 5·2	9	44	3	0·22	- 0·41	*	*	*	*
10. IRELAND, S.	Dublin	53	29	45·8	34·6	40·0	- 5·5	11	27	4	0·64	+0·16	26·1	- 5·2	29	- 8
	Parsonstown	52	26	46·6	31·7	38·9	- 5·3	13	38	5	1·54	+0·99	30·6	+ 1·8	34	0
	Kilkenny	50	24	46·0	34·4	39·9	- 5·1	11	27	4	0·91	+0·38	*	*	*	*
	Roche's Point	52	34	48·7	39·0	43·7	- 2·7	25	8	5	1·14	+0·42	*	*	*	*
	Valencia	54	30	50·3	35·9	42·9	- 4·6	32	17	3	0·46	- 0·33	39·5	+ 6·0	44	+ 5
	Killarney	53	28	49·6	33·7	41·4	- 4·4	21	33	5	0·53	?	*	*	*	*
	Foynes	?	29	?	35·0	?	?	?	?	5	1·19	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	55	39	52·0	43·1	47·4	+ 0·1	38	0	5	1·62	+1·08	35·4	?	40	?
	Jersey	57	36	53·0	42·1	47·4	+ 0·5	38	0	5	1·69	+1·12	33·6	- 5·4	38	- 8

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

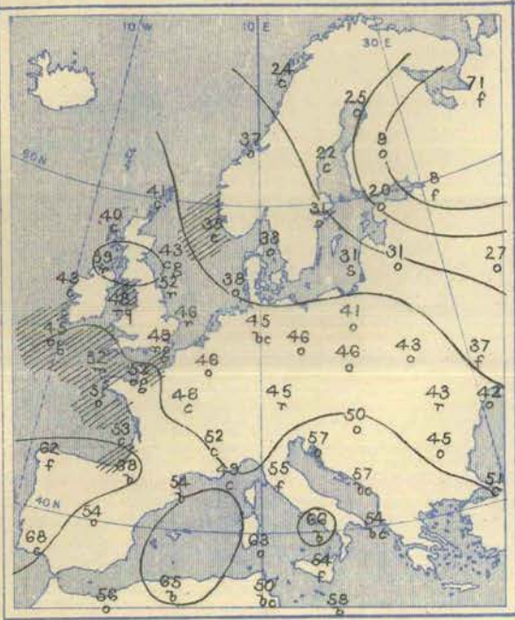
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

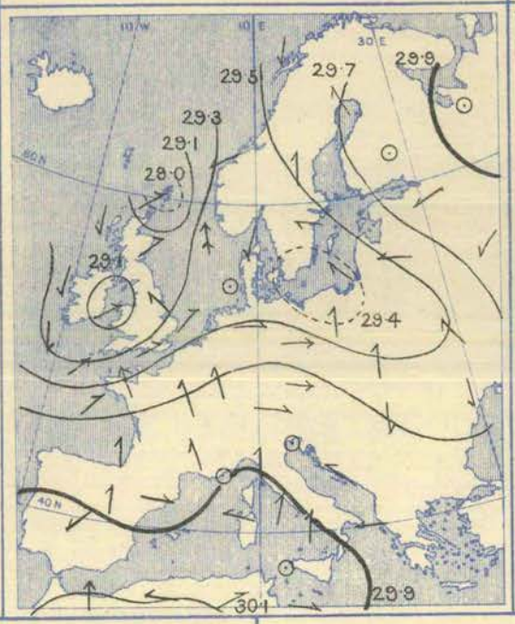
NOTE.—It will be observed that Shaftesbury has taken the place of Stowell in the list of stations for England S.

Sunday, 28th March.

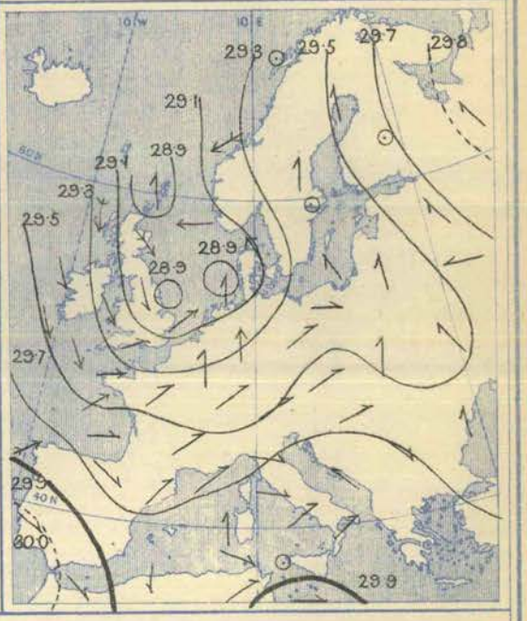
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the Mediterranean and several parts of France but dull elsewhere; very unsettled and rainy over the British Islands, snow falling at some of the Mediterranean stations. Rain falling later in small quantities all over the British Islands and France, sleet and soft hail in the north, but sky clearing subsequently at all our western stations. Thunderstorms reported at some French stations.

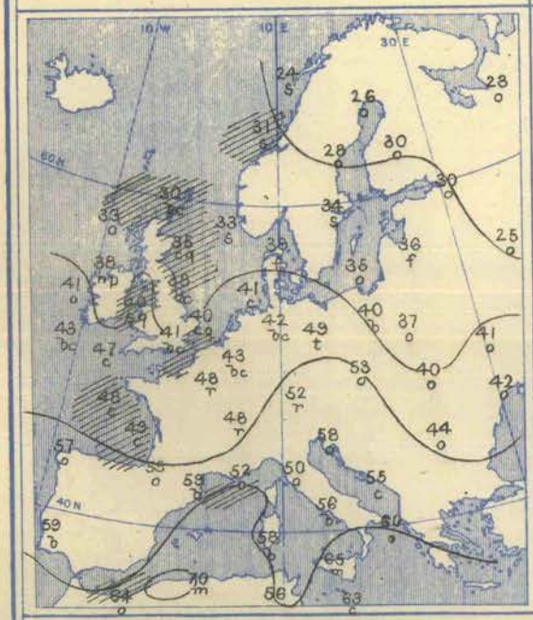
Temperature falling over the British Islands generally. Morning readings highest, 65° to 60° at several widely separated stations in the Mediterranean, and 68° to 62° along the western and northern coasts of the Spanish Peninsula; 52° at Jersey and Scilly. Lowest, 7° at Archangel, 8° at St. Petersburg, 9° at Kuopio, and below the freezing point over northern Europe generally; above 40° over the British Islands as a whole but as low as 34° at Leith, 36° at Ardrossan, and 39° at Malin Head; falling greatly over the United Kingdom later, rising over central Europe.

Wind varying greatly; (1) Easterly over Finland and the northern parts of the Baltic, Northerly in Denmark, Westerly over Germany, but Southerly at Neufahrwasser; (2) Northerly on our extreme north-western and western coasts, Southerly over England, Portugal, and the northern half of France; (3) very light and variable over southern Europe and the Mediterranean. North-Westerly to Northerly winds becoming general over our Islands later and increasing to a gale in force—especially in the east of Scotland.

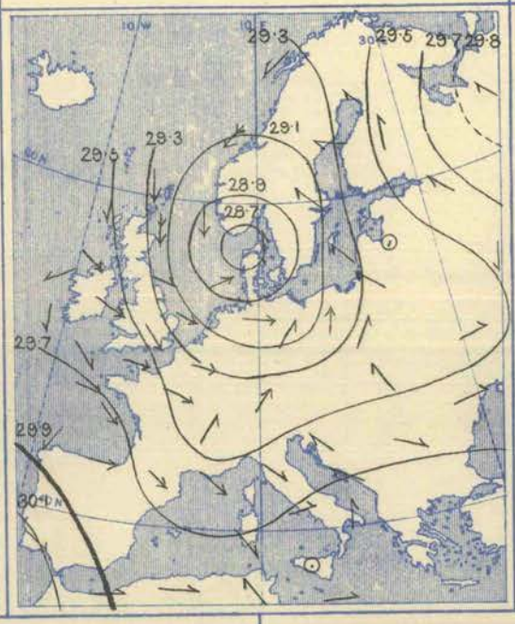
Barometer, highest 29·9 ins. and more to 29·6 ins. both over the southern and the most northern countries in Europe. Lowest, below 29·0 ins. in a depression over the Shetlands, below 29·1 ins. in another over the Irish Sea, and below 29·4 ins. in a shallow system over the southern parts of the Baltic. The Irish disturbance reaching the North Sea later and uniting with the others, causing a large deep depression which moved eastwards

Monday, 29th March.

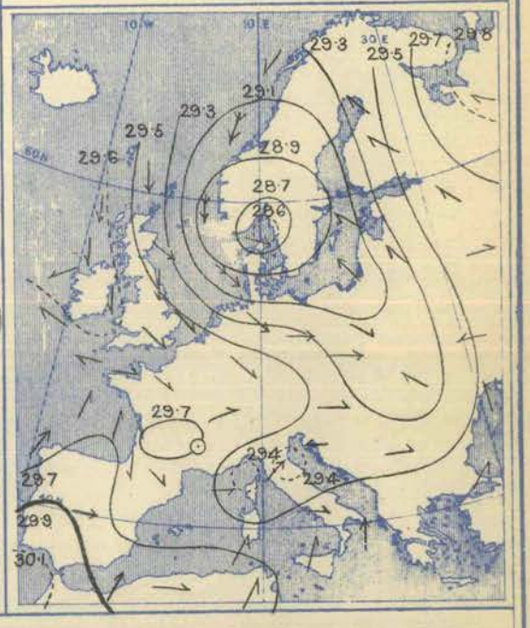
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning improving greatly over Ireland and England, but remaining very squally and unsettled in the east of Scotland, as well as over the North Sea. Unsettled over the Continent generally, with rain in France and several parts of Germany; thunder at Berlin; snow in Norway and the south of Sweden. Considerable snow over northern Europe later, and rain over Germany, Portugal, and France, but much sunshine prevalent over Ireland and England.

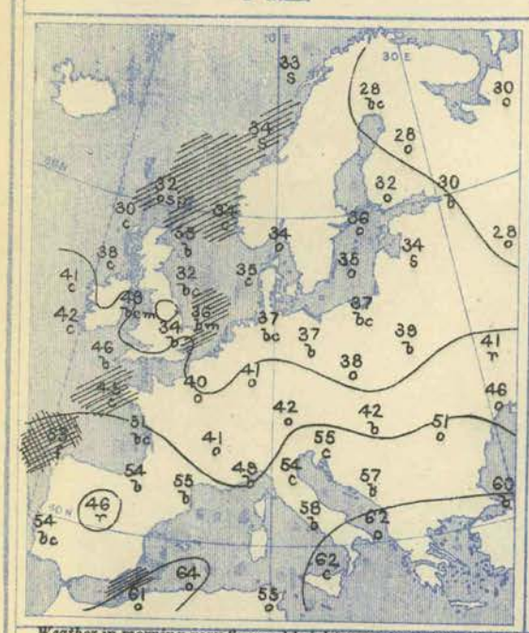
Temperature fallen decidedly over the British Islands and their neighbourhood; risen somewhat over central Europe, and risen rapidly over the north of Russia. Morning readings highest, 73° at Oran, 70° at Algiers, 65° at Malta, 60° at Barcelona and Brindisi, and considerably above 50° on the southern coasts of Europe generally; 47° at Jersey and Scilly, 43° at Valencia; 49° at Berlin and Swinemünde. Lowest, 26° to 30° over the most northern parts of Europe and in the Shetlands. Failing to reach 40° in Scotland, and 50° over the greater part of England during the day, but touching 55° at Berlin, 56° at Paris, 72° at Nice, 73° at Cagliari, and 79° to 82° in various parts of Algeria; succeeding night very frosty over the British Islands.

Wind Northerly, and blowing a gale at Christiansund and on the east coast of Scotland, North-Westerly over England and Ireland, Westerly over the Netherlands, Southerly to South-Easterly over the Baltic, and Easterly over Sweden. The gale in Scotland dying down later, but blowing with great force in the west of Norway and on the eastern shores of the North Sea.

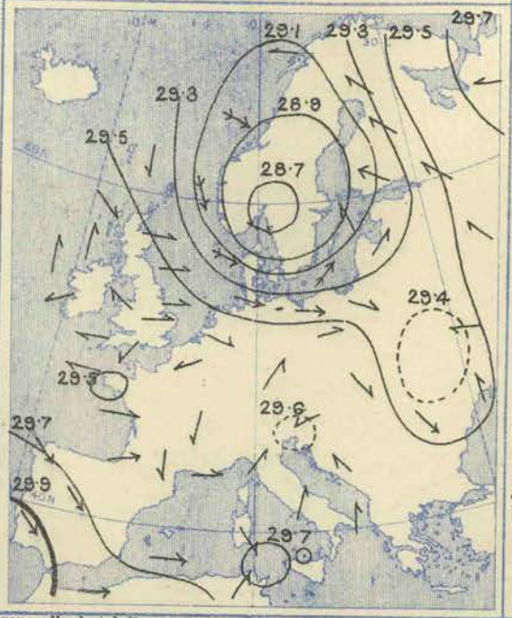
Barometer highest, (1) 30·0 ins. and more to 29·7 ins. over the Spanish Peninsula and Bay of Biscay; (2) 29·8 ins. and more to 29·7 ins. over the north of Russia. Lowest, 28·7 ins. in a depression over the Skager Rack. Depression moving north-eastwards later, barometer rising quickly in the north and east of our Islands, and gradients for Northerly and North-Easterly winds becoming exceedingly steep over the North Sea. A new, but small and shallow, depression approaching our south-western coasts later.

Tuesday, 30th March.

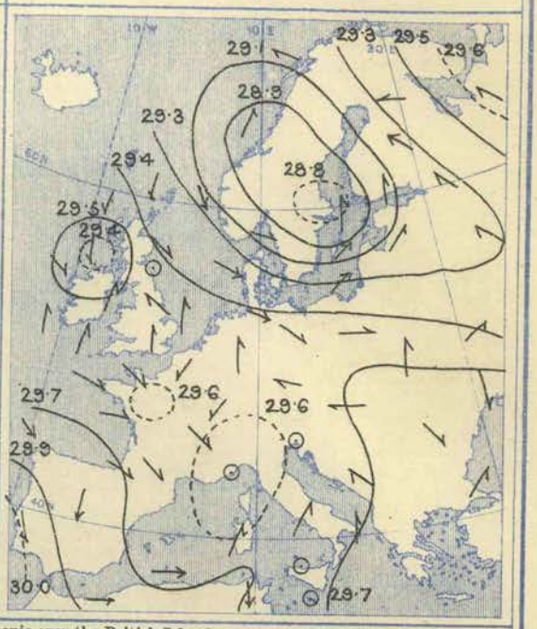
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very fine and bright over the British Islands generally, but dull over France and south Germany; very rough and unsettled over the Baltic, Scandinavia, and the North Sea, with snow in many parts of Scandinavia and the Shetland Islands. Rain setting in later over Ireland, wet snow in Scotland, cold showers falling at most of the Continental stations, and much rain locally over southern Europe; weather over England continuing fine.

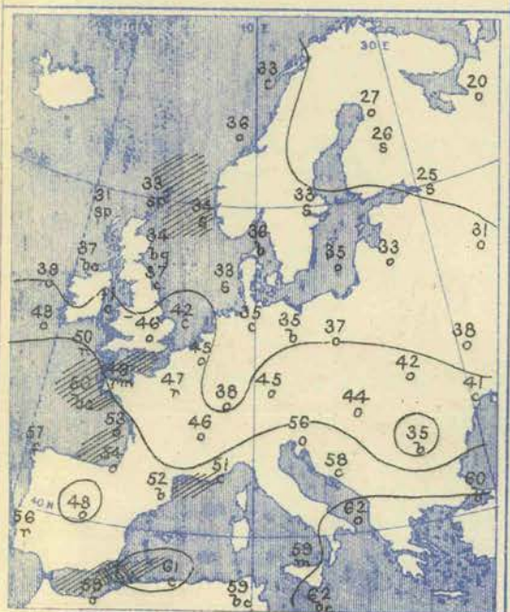
Temperatures showing a further fall over the British Islands and France, and a rapid fall over central Europe. Morning readings highest, 68° to 60° on the southern side of the Mediterranean, and above 50° on its northern shores; 54° at Biarritz, 47° at Jersey, 46° at Scilly, 43° at Holyhead. Lowest, (1) 23° at Kuopio and Haparanda, 30° at Archangel and St. Petersburg, and 34° at Riga and on the west coast of Norway; (2) 30° to 34° over the greater part of Scotland, 29° to 34° over central England. Rising later to between 50° and 53° over many parts of Ireland and England, to 55° in London, 57° at Paris, 64° at Nice, 73° at Cagliari, and 75° at Algiers.

Wind light and mainly anticyclonic over the British Islands, France, and southern Europe, very light from South-East over central Russia. A well-marked cyclonic circulation prevailing over Scandinavia, the North Sea, and the Baltic, the gales being especially strong on the eastern shores of the North Sea. Gales in latter region subsiding later, but spreading to the eastern parts of the Baltic.

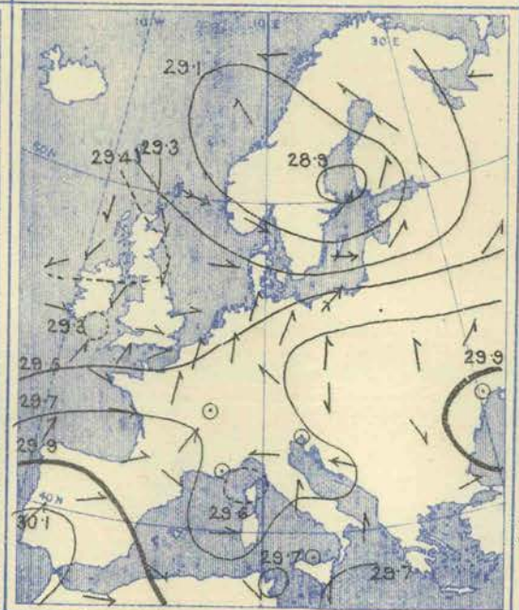
Barometer highest, (1) 29·9 ins. and more to 29·6 ins. over the Spanish Peninsula, the north of Africa, and the eastern part of the Mediterranean, and exceeding 29·6 ins. in a "ridge" stretching north-westwards from the Adriatic across Austria, Germany, and the east of France to England and Ireland; (2) 29·7 ins. and more to 29·6 ins. over the northern and central parts of Russia. Lowest, 28·7 ins. and less in a deep depression lying over the southern half of Sweden, and below 29·5 ins. in a small shallow system near Lorient. Fresh disturbances approaching the western parts of the British Islands later.

Wednesday, 31st March.

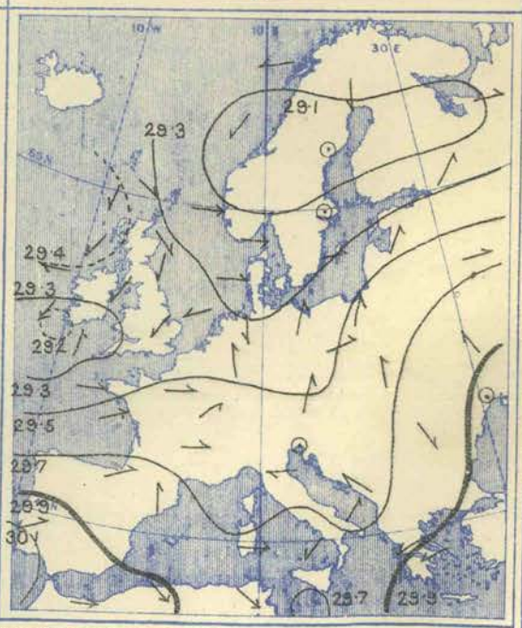
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Scotland and the north of Ireland, over central Russia, and most parts of south-eastern Europe, dull elsewhere. Very unsettled over Scandinavia (snow in places), rainy over Ireland, England, and France. Heavy rain later in several parts of Austria, Germany, France, and the south of England, and sleet in many places; general condition very unsettled.

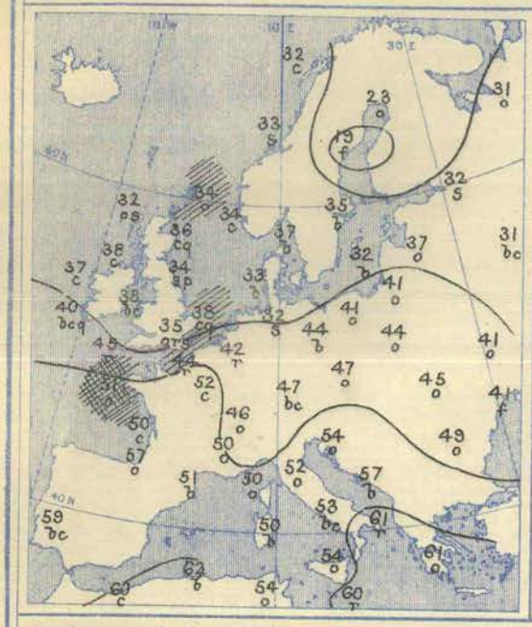
Temperature risen somewhat over France and the south of our Islands, but fallen decidedly at our northern stations, and fall spreading southwards. Morning readings highest, 59° to 62° on the southern side of the Mediterranean, and exceeding 50° in the south and west of France, 50° at Scilly. Lowest, (1) 20° at Archangel, and below 32° over the greater part of northern Europe; (2) 32° to 38° over Scotland, the north of Ireland, and at Parsonstown. Rising later to 50° and more over the south of England, to 53° at Paris, 57° at Munich, 68° at Perpignan, 70° at Nemours and 73° at Brindisi, but not touching 40° at several of our northern stations. Succeeding night cold all over our Islands.

Wind (1) light and anticyclonic from North in Scotland and from North-East over the northern parts of England, fresh North-Easterly in the north of Ireland; moderate to light from West and South-West over the southern parts of our Islands and the north of France; (2) blowing a fresh to strong gale from West and South-West over the Baltic, and a moderate breeze from South-East to East over Lapland. The North-Easterly wind spreading all over our Islands later, and increasing in force in the south. A moderate Westerly gale setting in over the French coasts, but the South-Westerly gale over the Baltic dying down.

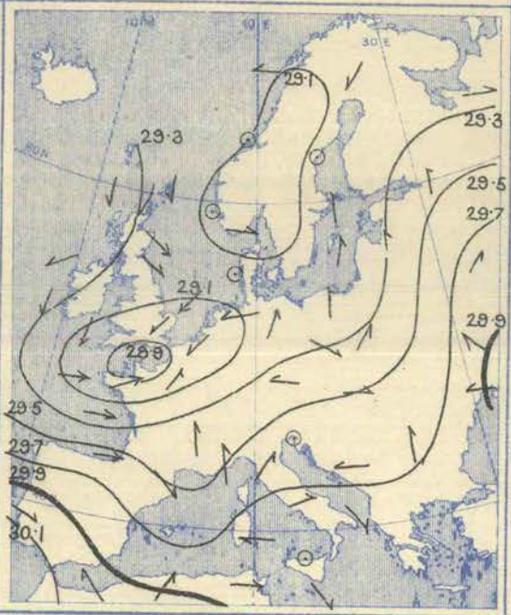
Barometer highest, 30·1 ins. to 29·7 ins. over Spain and the south-west of France, and 29·9 ins. to 29·7 ins. over south-eastern Europe; exceeding 29·4 ins. over Scotland and the north of Ireland. Lowest, below 28·9 ins. in a depression having its centre between Stockholm and Finland, and below 29·0 ins. in another over Norway. A trough of low pressure lying across England and the south of Ireland. A further disturbance approaching our south-western coasts later.

Thursday, 1st April.

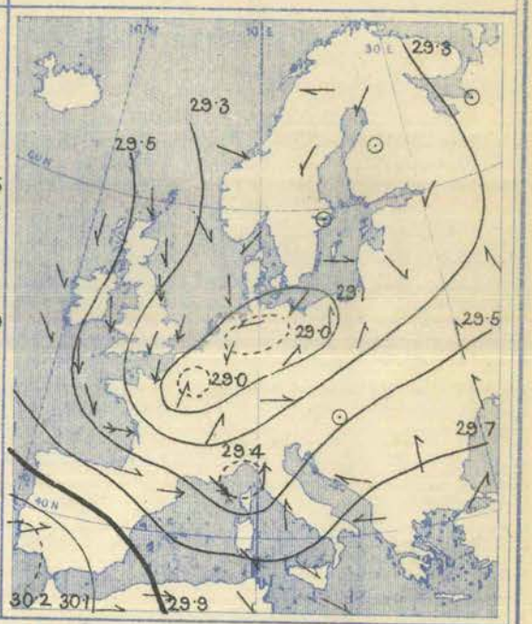
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Sweden, Ireland, and apparently over Portugal, the southern side of the Mediterranean, and most of the Adriatic stations; rough and unsettled over Great Britain and the North Sea; dull over central Europe. Showers of sleet, soft hail, or rain falling later over Great Britain, and larger quantities over France, the Netherlands, Germany, and Italy—the amounts being greatest over Belgium and the east of France; fair weather holding in the south-west of our Islands.

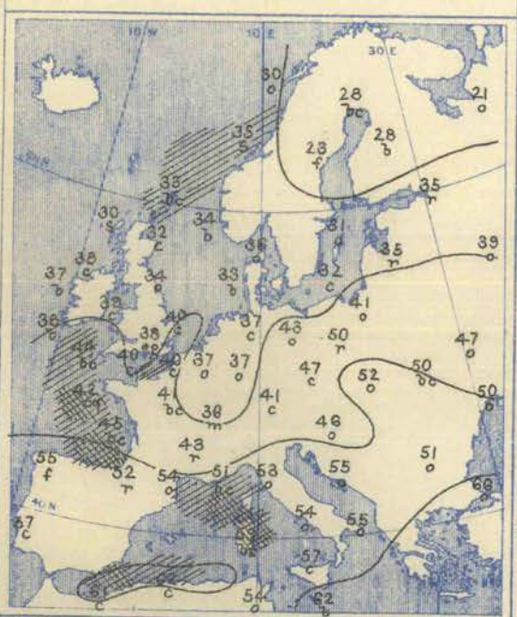
Temperature fallen fast over England, risen over France. Morning readings highest, 62° at Algiers, 61° at Brindisi, 60° at Malta, and rather above 50° in the south and west of France; 49° to 45° over central Europe. Lowest, (1) 19° at Hernösand, 23° at Haparanda, and below 32° over the northern parts of Russia; (2) 32° to 37° at the Scotch stations, 33° to 35° over central England. Failing to reach 40° in the north of Scotland later, or to exceed 45° over the greater part of our Islands, but touching 52° at Berlin and Paris, 50° at Nice, and 64° at Perpignan, and reaching 70° at Brindisi and Cagliari, and 73° to 79° over Algeria and Tunis.

Wind very light and variable over Scandinavia; light to moderate from between North-West and North-East over Scotland and Ireland, moderate to strong from North and North-East over England, but blowing a moderate gale from the Westward over the west and north of France, and a light breeze from the southward over Germany. North-Westerly to South-Westerly winds prevalent over the Mediterranean. Becoming more Northerly over England later, and subsiding; Westerly gale in France also dying down.

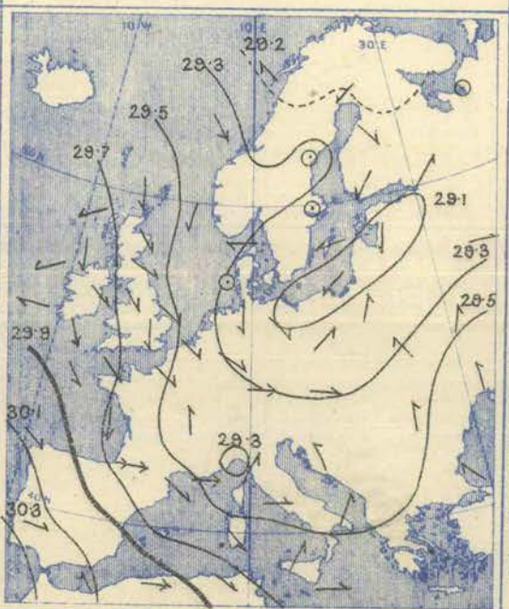
Barometer (1) highest, 30·1 ins. to 29·6 ins. over the Iberian Peninsula, and 29·9 ins. to 29·6 ins. over the greater part of the Mediterranean and south-eastern Europe. Lowest, below 29·1 ins. in a large shallow depression over Scandinavia, and below 28·9 ins. in a small deep one over the English Channel. Latter system travelling south-eastwards later. Barometer rising fast over the British Islands and France.

Friday, 2nd April.

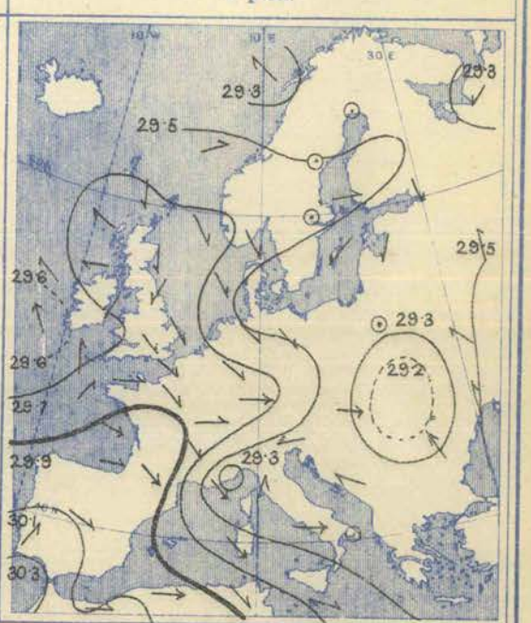
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over nearly the whole of the British Islands, and in many parts of France, as well as over several parts of Finland; fair but not settled over the southern half of the Mediterranean. Very unsettled and rainy over the Baltic Provinces and Germany, and in some stations in the south of France; snow falling at Münster and Spurn Head. Heavy rain setting in later over Brittany and the south-west of the British Islands, and small quantities of snow falling over the north-east of our Islands, and Germany. Considerable rain and wet snow over Austria-Hungary also, and some over Italy.

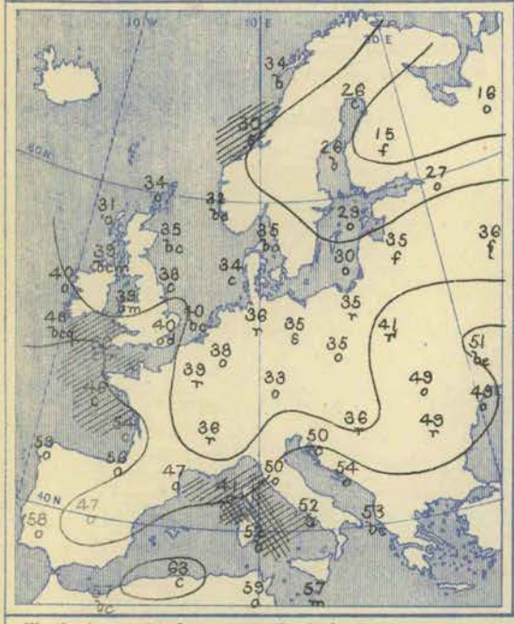
Temperature in morning highest, 66° at Constantinople, and exceeding 60° on the southern shores of the Mediterranean generally; 57° to 53° on the Atlantic coasts of Spain, 52° at Cracow, 51° at Hermanstadt, 50° at Breslau. Lowest, 21° to 30° at most of the stations in northern Europe, 30° to 34° over the north of Scotland, 34° at Parsonstown, 35° at York and Loughborough. Rising later to 70° at Oran, 68° at Nemours, 66° at Nice and Brindisi, but failing to reach 50° over the British Islands and the north of France, except at Prawle Point and Brest.

Wind light to moderate from the north-westward over the great part of the British Islands; fresh to strong on the French coast; North-Westerly to South-Westerly over central Europe, but North-Easterly over the Baltic. Westerly and North-Westerly gales prevailing over the northern and western parts of the Mediterranean, South-Westerly breezes at Palermo, and Southerly over the Adriatic. Freshening South-Easterly winds setting in on the western coasts of the British Islands later, and the North-Westerly winds over our Islands dying out.

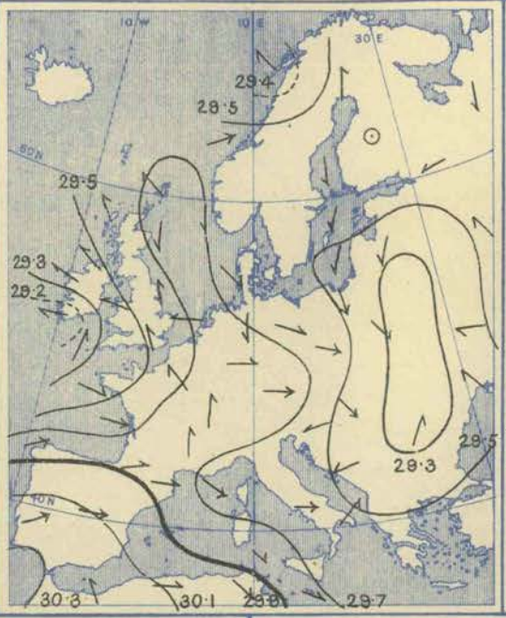
Barometer highest, 30·3 ins. to 29·7 ins. over Spain, the north of Africa, the Bay of Biscay, and the western parts of the British Islands. Lowest, below 29·2 ins. in a shallow depression over Lapland, below 29·1 ins. in a deeper system over north Germany and the Baltic provinces, and below 29·3 ins. in two small systems—one over the Gulf of Genoa, the other over the Adriatic. A new disturbance approaching the Irish coast later, and gradients for Northerly winds over south of France becoming steeper.

Saturday, 3rd April.

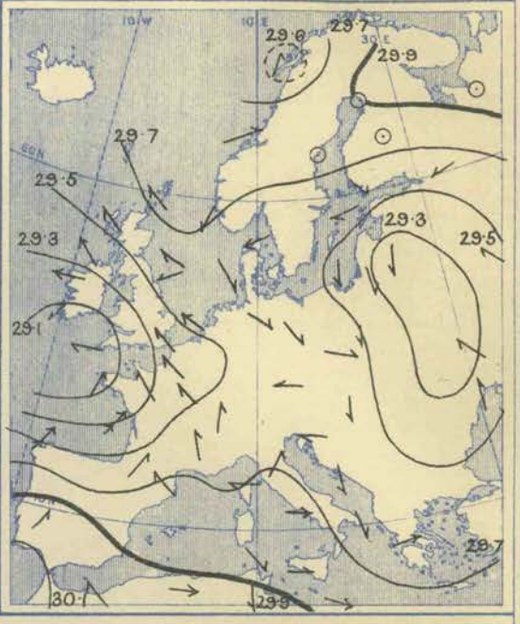
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Scotland, the North Sea, and many parts of Scandinavia, as well as over the southern side of the Mediterranean. Very unsettled over central Europe, with cold rain or wet snow in many places; dull, unsettled, and rainy at our own western stations again, as well as over Brittany, and some cold rain falling along our southern coast and in London. Rainfall heavy about the mouth of the Channel and adjacent shores of our Islands, as well as over many inland parts of France.

Temperature risen somewhat over western Europe, but air very raw over our Islands. Morning readings highest, 63° at Algiers, 58° to 54° on the shores of south-western Europe, and 54° to 50° on the shores of the Adriatic; 50° at Scilly, 48° at Valencia (Ireland). Lowest, 15° to 28° over the northern parts of Russia, Finland, and Sweden, 29° at Stockholm, 30° at the Scaw; 34° at Nairn, 35° at Leith, York, and Loughborough. Touching 56° at Scilly, 54° at Valencia, and 52° at Cambridge later, but scarcely exceeding 40° over the north of Scotland, and not touching 40° over Scandinavia. Rising, however, to between 60° and 68° in the south of France to 70° at Cagliari, and 77° at Oran.

Wind (1) Westerly and South-Westerly, strong over the Bay of Biscay, South-Easterly over the British Islands; blowing very strongly in the west, but with moderate force in the east. (2) North-Easterly to Northerly over the Baltic, North-Westerly, light to strong over central Europe, but Easterly and South-Easterly, very light, over Russia. (3) Westerly and North-Westerly, very strong, over the northern half of the Mediterranean. The South-Easterly wind becoming stronger over the British Islands later, and a strong gale from South-West setting in over the Bay of Biscay, falling light over central Europe and Russia.

Barometer highest, 30·3 ins. to 29·9 ins. over the Spanish Peninsula and varying from 29·9 ins. to 29·7 ins. in a ridge spreading thence over France and the North Sea to the Shetlands. Lowest, below 29·4 ins. over the eastern parts of central Europe, and below 29·2 ins. in another depression, coming slowly over our south-western coasts from the westward. Latter system moving south-eastwards later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week the distribution of pressure over our area has been very complex. As a rule there have been two high-pressure systems—one stretching in from the Atlantic over Spain, the other lying well within the Arctic regions and affecting the northern parts of Europe.

Into the region separating these systems several depressions have advanced from the Atlantic—some of them appearing over the more northern districts, others advancing over the south of England or the north of France. Some were disturbances of a simple well-defined form, others were complex, while that of April 1st, after passing to the eastward of the North Sea, spread out over central Europe, and remained there till the end of the week, when a new system began to advance over our south-western districts from the Atlantic.

In the rear of all these disturbances the barometer rose decidedly, and anticyclonic systems, of a "ridge-like" form, were developed.

Temperature was consequently very unsteady, and at times very low; the wind was very variable, rainfall was abundant over the southern parts of the British Islands and many parts of the Continent, and consisted largely of snow, graupel, or sleet in many places.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 74.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
EDINBURGH	33·7	+ 9·7	37	+ 9	EASTBOURNE	29·4	- 5·7	33	-7
OSWALDKIRK (Yorkshire)	34·3	+ 5·8	38	+ 5	SOUTHPORT	39·8	?	44	?
WORKSOP	32·8	+ 7·2	37	+ 7	COLWYN BAY	24·5	?	28	?
THURCASTON (Leicestershire)	25·0	0·0	28	0	NEWQUAY	34·4	- 0·6	39	-1
MARGATE	28·6	- 1·7	32	- 3	TORQUAY	35·7*	- 0·6	40*	-2
WESTBOURNE (Sussex)	28·3*	- 7·8	32*	-10	GUERNSEY	39·8*	+ 1·8	45*	0
BRIGHTON	28·8	- 4·0	32	- 7					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 14.] *Third Series.* WEEK ENDING SATURDAY, APRIL 10TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 80.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	23	47·0	32·6	39·5	2 below	14	− 2	34	+ 5	105	− 10	526	− 1
	1. SCOTLAND, EAST	58	16	46·9	30·9	38·6	4 below	14	− 8	40	+12	133	− 22	569	+ 10
	2. ENGLAND, N.E.	52	25	46·3	33·6	39·5	4 below	11	−10	30	+ 6	180	+ 24	430	− 56
	3. ENGLAND, EAST	57	27	48·0	33·6	40·5	4 below	17	−11	32	+ 6	229	+ 33	450	− 98
	4. MIDLAND COUNTIES	56	25	48·2	33·6	40·6	4 below	17	−15	32	+ 5	235*	+ 20	458	− 89
	5. ENGLAND, SOUTH	57	30	49·4	37·8	43·4	2 below	27	− 2	12	−10	273	+ 45	289	−159
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	52	26	47·1	34·4	40·5	3 below	14	− 8	28	+ 6	149	− 18	393	− 10
	7. ENGLAND, N.W.	53	29	47·3	35·4	41·1	4 below	15	− 9	25	+ 4	188	+ 22	347	− 62
	8. ENGLAND, S.W.	56	27	49·3	38·5	43·7	2 below	27	− 3	10	− 5	296	+ 40	216	−115
	9. IRELAND, NORTH	54	29	48·1	35·0	41·3	3 below	17	−12	27	+ 8	202	− 21	358	+ 8
	10. IRELAND, SOUTH	57	33	50·7	38·5	44·4	2 below	31	− 1	10	− 4	342	+ 29	241	− 27
	—CHANNEL ISLANDS	54	39	51·0	42·9	46·7	1 below	33	0	0	− 5	438	+106	68	− 76

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 80.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	2	5 less	67	− 1	11·3	− 3·0	39	+13	41	+12	195	+ 5	21	+ 1
	1. SCOTLAND, EAST	3	2	3 less	60	+ 8	6·9	− 1·1	39	+10	42	+10	213	− 24	23	− 2
	2. ENGLAND, N.E.	2	2	2 less	61	+11	6·6	+ 0·6	40	+11	43	+11	235	− 1	25	0
	3 ENGLAND, EAST	3	3	1 less	60	+11	7·4	+ 1·7	30	− 3	33	− 4	243	− 26	25	− 3
	4. MIDLAND COUNTIES	3	4	0 (average)	57	+10	8·3	+ 1·7	31	0	34	0	233*	− 15	24	− 1
	5. ENGLAND, SOUTH	4	4	0 (average)	57*	+12	9·7	+ 2·4	31	− 4	34	− 6	250	− 28	25	− 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	2	5 less	61	+ 4	11·3	− 2·6	35	0	37	0	221	− 13	23	− 1
	7. ENGLAND, N.W.	3	4	1 less	64	+12	8·4	+ 0·2	38	+10	41	+10	219	− 15	23	− 1
	8. ENGLAND, S.W.	5	12	6 more	70	+18	14·3	+ 4·1	29	− 9	32	−10	257	− 47	26	− 5
	9. IRELAND, NORTH	5	7	2 more	71	+11	10·3	+ 0·7	21	− 7	23	− 9	227	− 5	24	0
	10. IRELAND, SOUTH	6	13	7 more	67	+12	13·0	+ 2·4	24	−10	26	−12	261	− 19	27	− 2
	—CHANNEL ISLANDS	5	10	5 more	75	+17	12·8	+ 3·8	31	−10	34	−12	270	− 70	27	− 7

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather continued very unsettled, with frequent rain in Ireland and the south and south-west of England, but in all the northern and eastern districts it was fairer than of late and the rainfall slight. Thunderstorms occurred over the south of England on the 7th.

Temperature was below the mean in all districts, the deficit ranging from 1° in the Channel Islands to 4° over the northern, eastern, and central parts of Great Britain. The highest of the maxima were recorded either on the 8th or 9th, and ranged from 58° in Scotland E., and 57° in England S. and E. and Ireland S. to 52° in England N.E. and Scotland W. The lowest of the minima, which were registered on the 5th, were again very low for the time of year. They ranged from 16° in Scotlond E., and from 23° in Scotland N. to 30° in England S., 33° in Ireland S., and 39° in the Channel Islands.

Rainfall was much more than the mean in England S.W., Ireland S., and the Channel Islands, and rather more in Ireland N. In the Midland Counties and England S. the fall just equalled the normal, while in all other districts there was a deficit.

Bright Sunshine exceeded the mean over the north of England and the north and east of Scotland, and just equalled it in the Midland Counties and Scotland W. In all other parts of the Kingdom there was a deficiency. The percentage of the possible duration ranged from 43 in England N.E., 42 in Scotland E., and 41 in Scotland N. and England N.W. to 26 in Ireland S., and 23 in Ireland N.

Barometer and Wind.—At the commencement of the week the conditions were cyclonic in the south, and anticyclonic in the north, the prevailing Easterly and North-Easterly winds being strong at several of our western and southern stations. By Tuesday morning the anticyclone had receded north-eastwards and two depressions were shown—one in the north-west and the other over the English Channel. These systems subsequently moved away,—one north-westwards, and the other south-eastwards, and the wind, which had increased to a gale from S.E. in the west as they advanced, subsided and became variable in direction. During Wednesday a shallow disturbance, with two distinct minima, moved slowly eastwards over Ireland and England, and this was followed on Friday by a "V"-shaped system which covered the whole Kingdom, and moved slowly eastwards, disappearing over the North Sea at the end of the week. The winds, which for some days had changed frequently, finally became North-Westerly or Northerly and light or moderate in force.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 79 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	31	44·0	34·4	39·0	- 1·5	6	27	3	0·27	-0·23	*	*	*	*
	Stornoway	51	31	47·7	33·1	40·1	- 1·7	16	33	2	0·07	-0·59	50·5	+21·3	53	+20
	Wick	50	26	47·0	34·4	40·4	- 1·4	14	28	3	0 29	-0·09	*	*	*	*
	Lairg Ⓢ	54	23	46·6	30·0	37·9	3·3	13	42	1	0·09	-0·51	*	*	*	*
	Glencarron Ⓢ	53	25	46·6	30·0	37·9	- 3·4	13	42	2	0·37	-0·67	*	*	*	*
	Fort Augustus Ⓢ	54	24	49·3	31·8	40·1	- 2·4	20	38	2	0·06	-0·39	31·1	+ 8·4	33	+10
	Fort William Ⓢ	52	30	47·8	34·8	41·1	- 2·1	16	28	2	0·13	-0·69	35·7	+ 8·7	38	+ 8
1. SCOTLAND, E.	Nairn	55	24	48·7	30·4	39·1	- 3·5	19	42	2	0·12	-0·16	*	*	*	*
	Aberdeen	51	29	46·1	35·6	40·6	- 2·1	11	24	4	0·28	-0·20	46·6	+14·6	50	+14
	Braemar Ⓢ	46	16	42·7	27·9	35·1	- 4·5	2	48	1	0·01	-0·47	38·0†	+ 9·3†	40†	+ 8†
	Ochtertyre Ⓢ	54	24	48·3	31·0	39·2	- 3·6	18	40	4	0·19	-0·41	*	*	*	*
	Leith	58	26	49·4	31·3	39·9	- 3·9	21	39	4	0·10	-0·28	*	*	*	*
	Marchmont Ⓢ	51	25	46·4	29·3	37·6	- 4·1	12	46	4	0·37	-0·20	40·0	+12·4	43	+12
2. ENGLAND, N.E.	Alnwick Castle	48	25	44·0	30·1	36·8	- 4·9	6	41	3	0·17	-0·35	*	*	*	*
	Durham	50	27	47·1	31·3	38·8	- 4·0	14	38	3	0·34	-0·16	42·9	+15·0	46	+15
	Shields	50	32	46·0	34·4	39·6	- 2·9	11	27	3	0·24	-0·18	*	*	*	*
	Scarborough Ⓜ	49	32	44·8	35·4	39·9	- 3·9	8	24	2	0·16	-0·30	*	*	*	*
	York	52	29	48·1	32·3	39·8	- 4·4	17	35	1	0·26	-0·16	36·3	+ 7·3	39	+ 8
	Spurn Head	49	35	45·7	37·9	41·6	- 1·6	10	16	1	0·08	-0·25	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	52	28	47·2	31·7	39·1	- 5·7	15	37	4	0·37	-0·03	34·5	+ 4·0	37	+ 2
	Yarmouth	49	35	45·4	37·7	41·4	- 2·0	10	16	2	0·23	-0·19	*	*	*	*
	Geldeston	57	26	48·6	32·5	40·2	- 4·2	18	35	2	0·15	-0·25	25·3	- 9·5	28	-11
	Cambridge	55	27	50·3	32·4	40·9	- 4·2	23	36	2	0·41	+0·03	29·9	- 3·5	33	- 4
	Rothamsted	54	30	48·3	33·7	40·8	- 3·4	18	39	3	0·32	-0·14	30·6	- 1·4	33	- 3
4. MIDLAND COUNTIES	Harrogate Ⓜ	52	26	46·7	31·6	38·8	- 4·5	13	37	1	0·15	?	36·8†	?	40†	?
	Bawtry (Hesley Hall)	56	27	51·3	33·3	41·9	- 2·7	26	34	1	0·15	-0·27	*	*	*	*
	Loughborough	54	25	47·9	33·4	40·3	- 4·8	17	32	3	0·44	+0·02	*	*	*	*
	Stamford (Duddington)	53	28	48·4	33·3	40·6	- 4·2	18	33	4	0·47	+0·05	*	*	*	*
	Cheadle Ⓜ	51	28	46·0	32·6	39·0	- 4·5	11	34	4	0·48	-0·04	*	*	*	*
	Shirley (near Solihull)	51	26	47·0	34·0	40·2	- 3·7	14	29	4	0·30	?	*	*	*	*
	Churchstoke Ⓜ	53	26	47·3	31·4	39·0	- 4·2	15	38	4	0·68	+0·23	30·3	- 0·6	33	- 1
	Hereford Ⓜ	55	28	50·3	35·6	42·6	- 2·9	31	18	5	0·50	+0·08	*	*	*	*
	Cirencester	52	26	48·1	34·6	41·0	- 2·7	17	28	4	0·65	+0·15	36·1	+ 4·7	39	+ 4
	Oxford	54	28	49·3	36·0	42·3	- 2·9	27	17	3	0·38	-0·04	28·2	- 2·9	31	- 5
5. ENGLAND, S.	London	57	32	51·7	37·3	44·2	- 1·9	35	13	3	0·42	+0·02	20·3†	- 5·4†	22†	- 6†
	North Foreland	54	33	47·0	38·4	42·5	- 1·1	19	10	6	0·37	?	*	*	*	*
	Dungeness	53	32	50·0	39·3	44·4	- 0·4	28	8	3	0·18	-0·28	*	*	*	*
	Hastings (St. Leonards)	52	35	48·8	37·7	43·1	- 2·5	26	12	5	0·48	-0·03	32·1	- 4·9	35	- 6
	Southampton	57	30	51·1	37·7	44·2	- 2·5	33	12	4	0·41	-0·07	34·8	- 1·0	38	- 2
	Hurst Castle	55	32	49·7	39·3	44·3	- 1·4	27	8	4	0·59	+0·14	*	*	*	*
	Shaftesbury Ⓜ	51	32	47·3	34·9	40·8	- 3·4	15	26	4	0·64	+0·10	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	51	32	47·4	34·8	40·8	- 3·7	15	27	3	0·12	-0·88	*	*	*	*
	Glasgow	52	30	46·2	34·0	39·8	- 3·4	12	29	2	0·05	-0·48	23·8	- 1·7	25	- 2
	Ardrossan	52	31	47·1	34·1	40·3	- 3·6	14	29	3	0·11	-0·43	*	*	*	*
	Glenlee Ⓢ	52	26	47·3	33·2	40·0	- 2·7	15	33	3	0·19	-0·60	*	*	*	*
	Gilcrux (Cumberland)	51	28	47·7	33·5	40·4	- 2·5	16	32	3	0·12	?	41·5	?	45	?
	Douglas Isle of Man)	51	34	47·0	36·6	41·7	- 2·3	14	22	3	0·56	-0·08	39·0	+ 2·4	42	0
7. ENGLAND, N.W.	Stonyhurst	50	29	46·2	34·0	39·9	- 3·9	12	30	2	0·29	-0·38	38·3	+ 9·3	41	+ 9
	Blackpool Ⓜ	50	26	48·4	33·4	40·5	- 3·9	18	32	3	0·33	-0·17	38·8	+10·8	42	+11
	Manchester (Prestwich)	52	31	47·2	34·5	40·6	- 3·8	15	28	1	0·33	-0·18	33·6	?	36	?
	Liverpool Obsy. (Bidston)	52	31	47·6	35·9	41·5	- 3·5	16	24	3	0·40	-0·02	*	*	*	*
	Llandudno Ⓜ	53	32	47·5	37·2	42·1	- 3·9	21	13	5	0·46	-0·02	*	*	*	*
	Holyhead	50	35	46·7	37·6	41·9	- 3·7	13	17	5	0·77	+0·29	*	*	*	*
8. ENGLAND, S.W.	Llandovery	56	27	50·4	35·4	42·5	- 2·5	31	18	5	0·95	+0·27	*	*	*	*
	Pembroke	49	35	47·6	40·9	44·1	- 1·5	19	3	4	1·37	+0·87	33·5	-13·9	36	- 6
	Clifton	53	32	49·1	37·0	42·9	- 2·3	26	14	4	0·59	+0·05	*	*	*	*
	Arlington (N. Devon)	52	33	47·9	36·4	41·9	- 0·9	17	22	5	1·57	+0·86	*	*	*	*
	Cullompton Ⓜ	55	31	50·1	37·5	43·5	- 3·0	29	13	5	1·02	+0·51	31·5	- 1·9	34	- 2
	Falmouth	54	37	49·7	42·0	45·7	- 0·6	26	0	6	1·40	+0·76	29·7	- 8·6	32	-11
	Plymouth	54	36	49·6	38·8	44·0	- 3·3	27	9	6	1·33	+0·88	23·6	-13·0	26	-15
	Prawle Point	54	36	49·9	39·7	44·6	- 1·2	28	6	6	1·19	+0·72	*	*	*	*
9. IRELAND, N.	Malin Head	50	33	47·0	36·6	41·6	- 3·0	14	27	4	0·12	?	*	*	*	*
	Londonderry	54	30	50·2	35·0	42·4	- 3·1	32	20	5	0·32	-0·28	*	*	*	*
	Edenfel (Omagh)	51	30	47·7	33·6	40·4	- 2·8	16	32	5	0·67	+0·13	*	*	*	*
	Belmullet	54	33	49·6	35·9	42·4	- 3·6	28	17	5	1·30	+0·62	*	*	*	*
	Markree Castle	54	34	48·8	36·1	42·3	- 2·5	27	17	6	0·96	+0·42	19·7	- 9·3	21	-12
	Armagh	53	29	48·1	33·6	40·6	- 3·5	17	32	5	0·79	+0·31	22·9	- 5·1	25	- 6
	Donaghadee	51	30	46·7	36·1	41·2	- 3·8	13	23	4	0·42	-0·09	*	*	*	*
	Edgeworthstown	54	31	46·6	33·2	39·7	- 4·0	13	33	7	1·17	+0·57	*	*	*	*
10. IRELAND, S.	Dublin	54	34	49·1	38·2	43·4	- 2·9	26	11	6	0·76	+0·28	19·2	-14·6	21	-17
	Parsonstown	55	33	50·3	37·6	43·7	- 1·3	30	12	7	1·08	+0·56	22·1	- 9·4	24	-12
	Kilkenny	56	35	49·0	37·7	43·2	- 2·5	26	12	6	1·04	+0·52	*	*	*	*
	Roche's Point	55	38	51·0	40·4	45·5	- 1·5	31	4	7	1·42	+0·72	*	*	*	*
	Valencia	55	35	52·0	40·0	45·7	- 2·2	34	6	6	2·12	+1·32	29·2	- 6·8	32	- 8
	Killarney	57	33	52·7	36·9	44·4	- 2·0	38	14	6	1·53	?	*	*	*	*
	Foynes	?	36	?	38·7	?	?	?	?	5	1·40	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	54	39	51·0	43·0	46·8	- 1·1	34	0	4	1·13	+0·60	29·9	?	33	?
	Jersey	53	40	50·9	42·7	46·6	- 1·3	32	0	6	0·82	+0 29	30·0	-11·6	33	-14

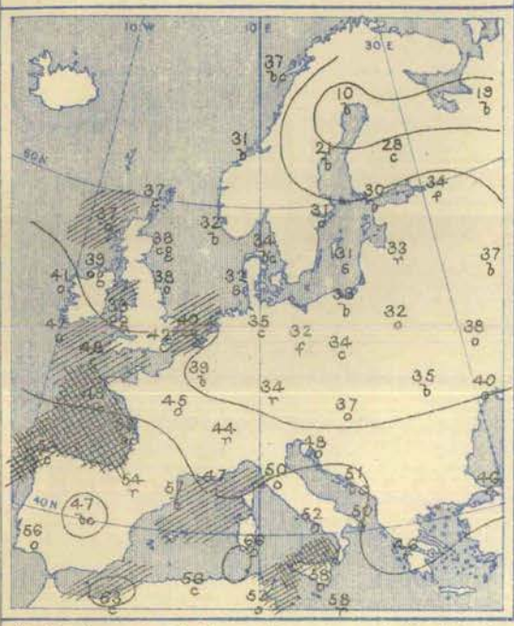
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

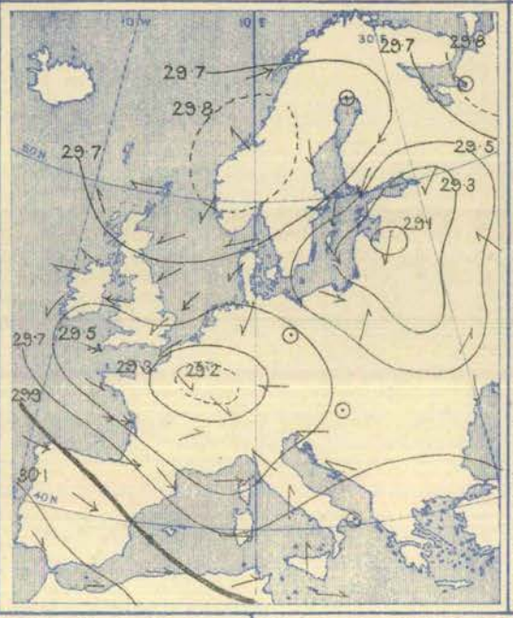
† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 4th April.

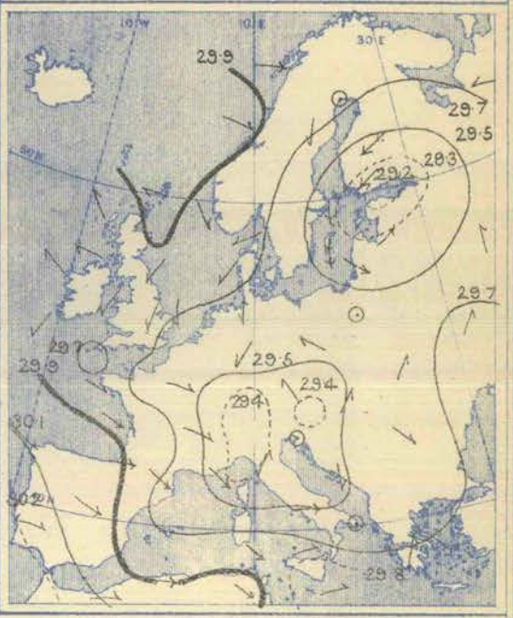
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy over the greater part of our Islands and the Continent, with rain at several of our southern and the French stations, and with snow over Denmark, the Baltic, and the Gulf of Finland. Fine in Scandinavia, and also in Spain. Sky clearing later at many of our own northern and eastern stations, but heavy rain falling in central France and northern Italy, and considerable quantities of snow at some of the Russian stations.

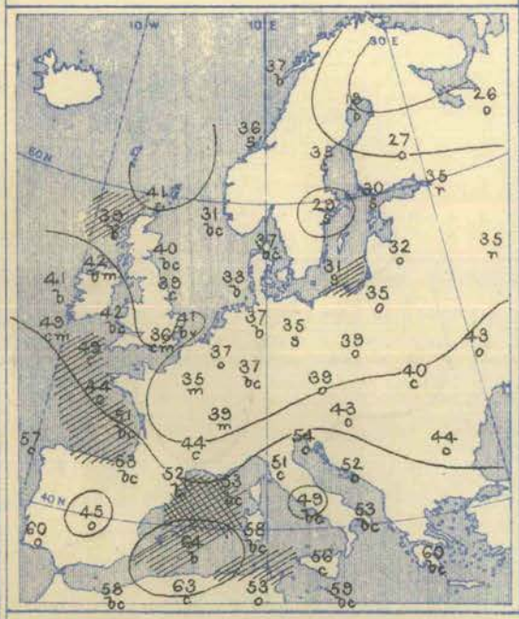
Temperature changed very irregularly. Morning readings highest, 64° at Barcelona, 63° at Nemours, and 60° at Cagliari, Oran, and La Calle; above 50° over southern Europe generally. Lowest, 10° at Haparanda, 19° at Archangel, 21° at Ulcaborg and Hernösand, and 26° at Karlstad; below the freezing point in most parts of northern Europe, and very little above it at some of our own northern stations. Daily maxima below 45° over the northern parts of our Islands generally, and above 50° on our extreme south-west coasts only; thermometer exceeding 60° over southern Europe as a whole, and exceeding 70° in some parts of Spain and southern Italy. Sharp frost occurring over the northern and central parts of our Islands at night.

Wind Easterly or North-Easterly over our Islands and the North Sea, and strong in force on our north-west and south-east coasts; strong from the Westward or North-Westward over the greater part of France and Spain; light to fresh from the Southward in Italy; Northerly or North-Easterly over northern Europe generally, with a gale at Wisby; Southerly over the central parts of Russia; Easterly in Germany; variable in Austria. Subsequently falling light on all our own coasts, but increasing to a gale from the North-Eastward in Finland.

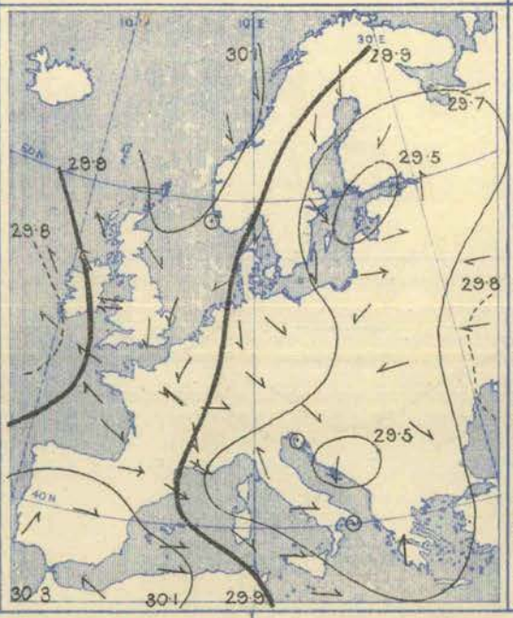
Barometer highest, 30·1 ins. and upwards in an anticyclone over Morocco and the southern parts of the Spanish Peninsula; 29·8 ins. and upwards in the west of Norway. Lowest, 29·1 ins. and less in a depression over the Baltic Provinces; 29·2 ins. and less in another disturbance over the north-east of France. Former depression subsequently moving northwards to the Gulf of Finland; latter disturbance travelling south-eastwards and partially filling up; barometer rising briskly in our Islands.

Monday, 5th April.

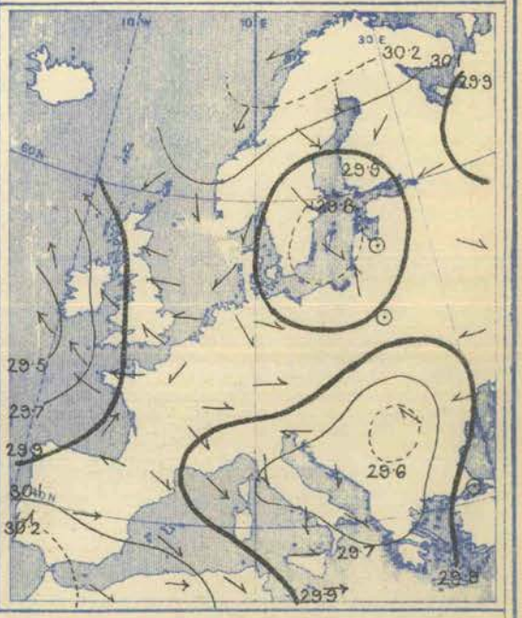
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater part of western and southern Europe, but dull over the Spanish Peninsula. Dull and unsettled in most of the eastern, northern, and central countries, with rain or snow in many places. Heavy rain falling later in the south-west of our Islands and the west of France, and smaller amounts on our western and southern coasts generally. Solar halos seen at Jersey and Tavistock, and bright aurora in the north of Scotland.

Temperature fallen in the central and south-eastern parts of England, and also in France and Spain, but risen elsewhere. Morning readings highest, 66° at Sfax, 64° at Palma, and 63° at Oran and Algiers; above 55° at most of the Mediterranean and Spanish coast stations. Lowest, 19° at Haparanda, 26° at Archangel, 27° at Kuopio, and 29° at Stockholm; below the freezing point in many parts of Sweden and Finland, and just touching it at Loughborough. Rising during day to 50° or a little above it at a few of our own western and southern stations, but not exceeding 45° on our east and south-east coasts. Exceeding 60° over southern Europe generally, and reaching 72° at Palma.

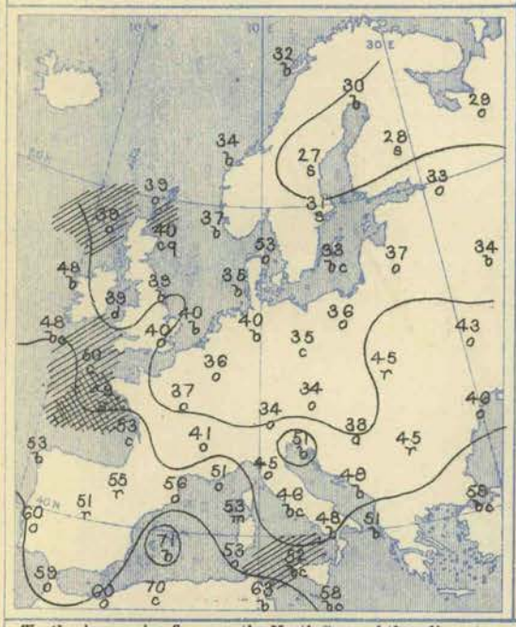
Wind moderate to fresh from the South-Eastward in the west of our Islands and the north-west of France; Westerly or South-Westerly over the Spanish Peninsula and the south-west of France. Northerly or North-Westerly over the eastern parts of Great Britain, as well as in Scandinavia, Denmark, Germany, Austria, and Italy; Easterly or North-Easterly over northern Russia. Subsequently increasing to a gale from the South-Eastward on our extreme west and south-west coasts; shifting to the Eastward in the east and south-east of Great Britain.

Barometer highest, 30·2 ins. and upwards over the southern parts of the Spanish Peninsula; 30·1 ins. and upwards in an area lying to the west of Norway. Lowest, 29·5 ins. and less in two depressions—one lying over the Gulf of Finland and the northern parts of the Baltic, and the other with its centre over Bosnia; 29·8 ins. and less in a third disturbance to the west of Ireland. Last-mentioned disturbance subsequently advancing eastwards, and barometer falling briskly on our west and south-west coasts.

Tuesday, 6th April.

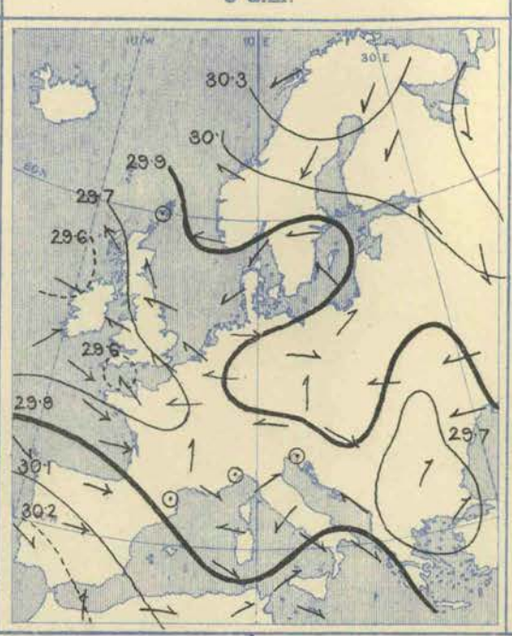
Temperature and Weather.

8 a.m.

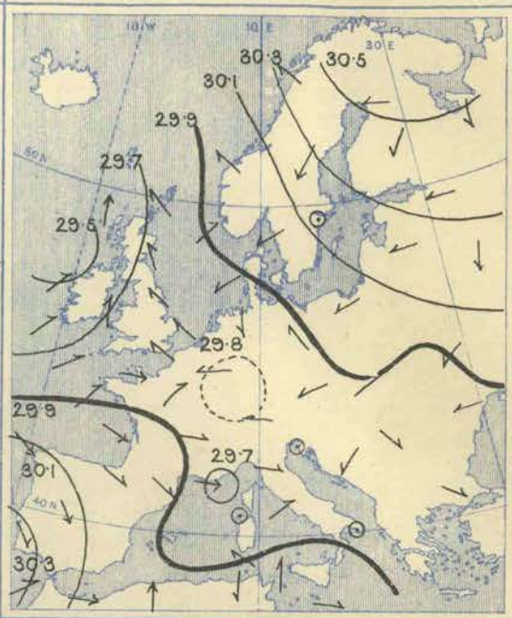


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the North Sea and the adjacent coasts, as well as in the south of Ireland. Cloudy or dull in most other parts of western Europe, with rain at some of our own western and southern stations, as well as in many parts of France and Spain. Dull also in Sweden, Russia and Austria, with snow at Kuopio, Hernösand, and Stockholm; fine in Italy. Rain falling later over the greater part of our Islands, France and Italy. Solar and lunar halos seen in the south of England, and thunder heard at Lyons.

Temperature changed irregularly in our Islands, risen in France and Spain; fallen in most of the other European countries. Morning readings highest, 71° at Palma, 70° at Algiers, and 63° at Tunis and Sfax; above 55° at the Mediterranean and Spanish coast stations generally. Lowest, 27° at Hernösand, 28° at Kuopio, Hangö and Helsingfors, and 29° at Archangel; below 40° over northern, eastern and central Europe generally, as well as in the northern parts of our Islands. Rising during day to 50° and upwards at many of our own western and southern stations, but remaining below 45° on our northern and eastern coasts. Exceeding 60° over southern Europe generally, and reaching 75° at Barcelona.

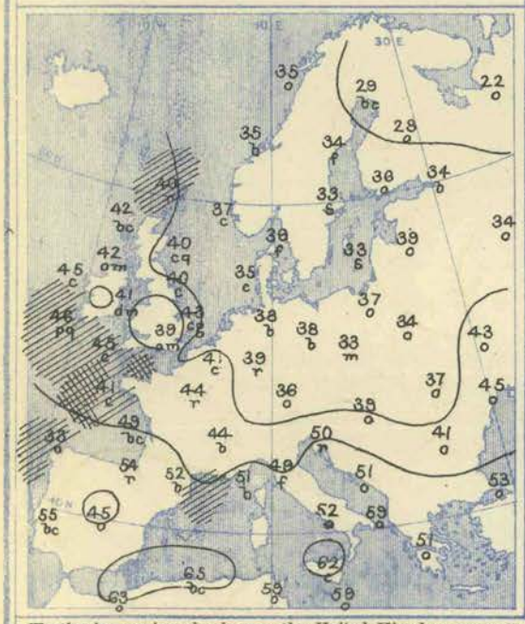
Wind light to fresh from the South-Eastward over the greater part of our Islands and the Bay of Biscay and the mouth of the Channel, and moderate from the same quarter over the Spanish Peninsula. Easterly or North-Easterly over the northern and eastern parts of Europe; variable over Austria and Italy. Subsequently shifting to the South-Westward in Ireland; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in an anticyclone over the north of Scandinavia; 30·2 ins. and upwards in another system over the south-western parts of the Spanish Peninsula. Lowest, 29·6 ins. and less in two depressions—one lying off the north-west of Ireland, and the other over the south-west of England, 29·7 ins. and less in a large shallow area over south-eastern Europe, 29·8 ins. and less in another shallow system over the extreme south of Sweden. Depression over south-west of England partially filling up later, but new disturbances beginning to approach the Irish coast.

Wednesday, 7th April.

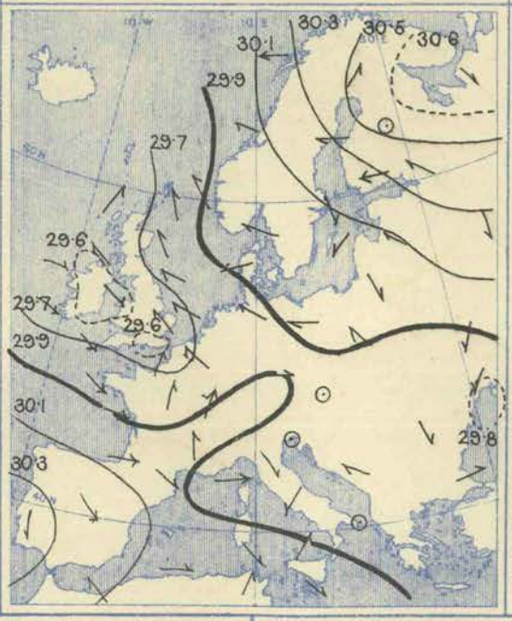
Temperature and Weather.

8 a.m.

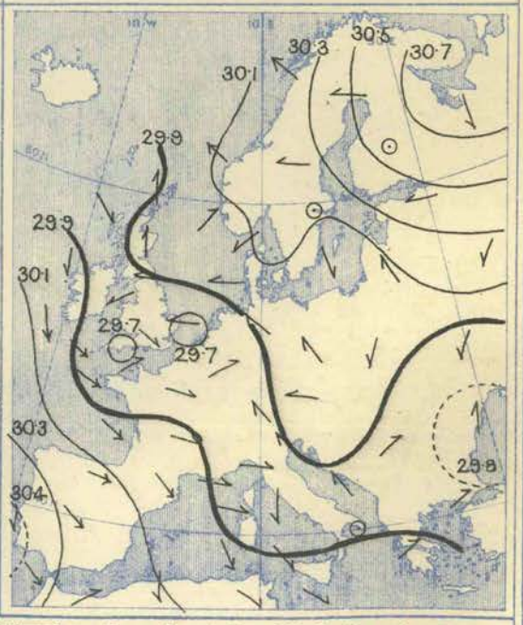


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over the United Kingdom generally, and also in many parts of France; snow falling at Loughborough, rain at several of the English and French stations, and passing showers on our south-west coasts. Fine over the Spanish Peninsula, the south of France and northern Italy, as well as over north Germany and the Netherlands; dull in most other parts of the Continent, with rain at Memel and Trieste, and snow in the south of Sweden. Rain, hail, or sleet falling later over nearly the whole of England, France, and the south of Ireland; thunder and lightning occurring in the south of England.

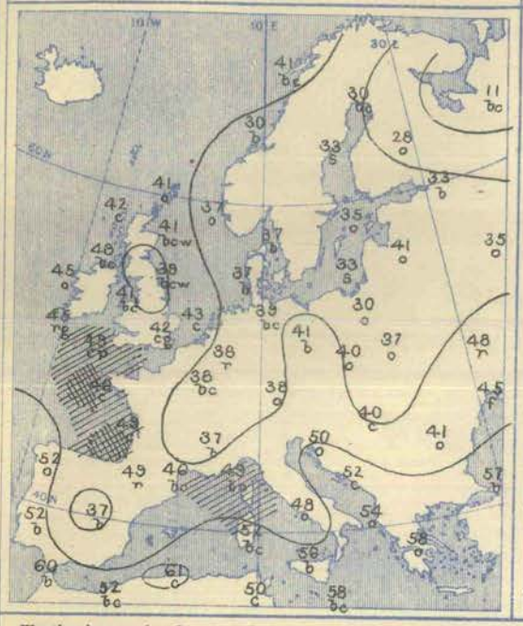
Temperature changed rather irregularly. Morning readings highest, 65° at Algiers, 63° at Nemours, and 62° at Palermo; above 35° at several of the Mediterranean and Spanish coast stations. Lowest, 22° at Archangel, 28° at Uleaborg and Kuopio, and 29° at Haparanda; below 40° over northern and central Europe generally, and also over the central parts of the United Kingdom. Rising during day to 50° and upwards at a few of our western and southern stations, and also at Stornoway; exceeding 60° over southern Europe generally, and reaching 68° at Brindisi.

Wind strong from the North-Westward over the south-west of our Islands, the west and south of France, and the Spanish Peninsula; South-Westerly over central France. Light to moderate from the Eastward or South-Eastward over all the more northern and eastern parts of our Islands, and also over the northern and central parts of the Continent. North-Easterly in the south of Russia, calm in Austria, variable in Italy. Subsequently veering to the North-Westward on our own western coasts; no important change occurring elsewhere.

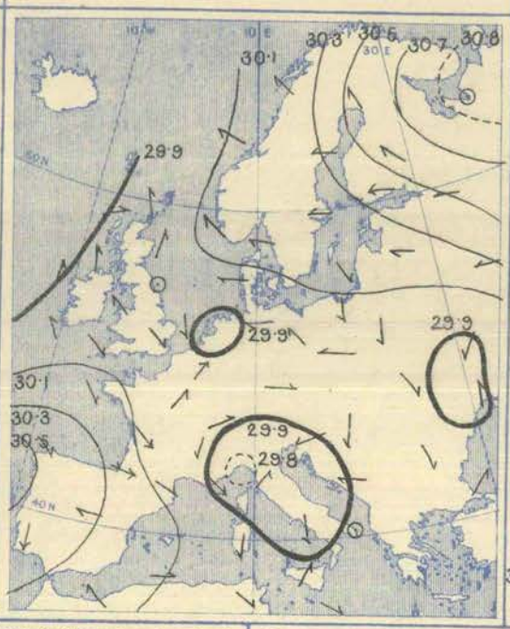
Barometer highest, 30·65 ins. at Archangel; 30·0 ins. and upwards in an anticyclone covering northern Europe generally, and also in another system over Algeria, Spain, and the south of France. Lowest, 29·6 ins. and less in two shallow depressions—one lying over Ireland and Wales, and the other over the south-east of England. Depressions subsequently moving eastwards and partially filling up; barometer rising briskly on our western coasts.

Thursday, 8th April.

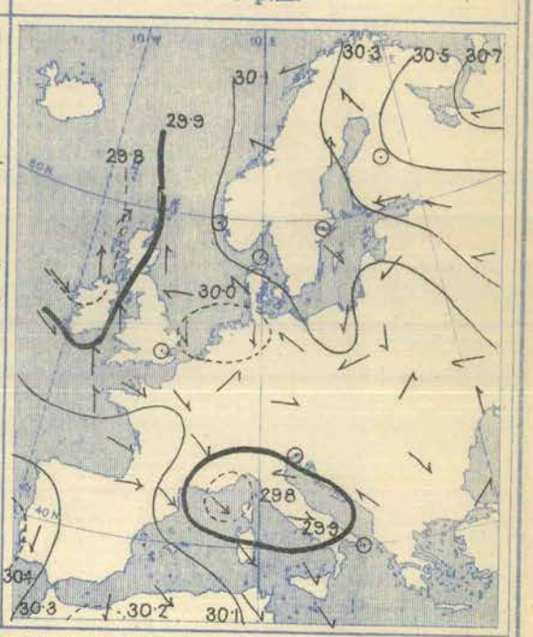
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands, but dull in the west and south of Ireland, with rain at Valencia; dull also in the south-east of England, with showers at Dungeness, rainy over the Netherlands. Fine over the Spanish Peninsula and the southern parts of France and Italy, as well as in Denmark, the west of Norway, and northern Russia; cloudy in most other parts of the Continent, with rain at Limoges and Biarritz, and snow at Hernösand and Wisby. Rain falling later in the west and extreme north of our Islands generally, as well as over the western parts of the Continent—heavily at Biarritz.

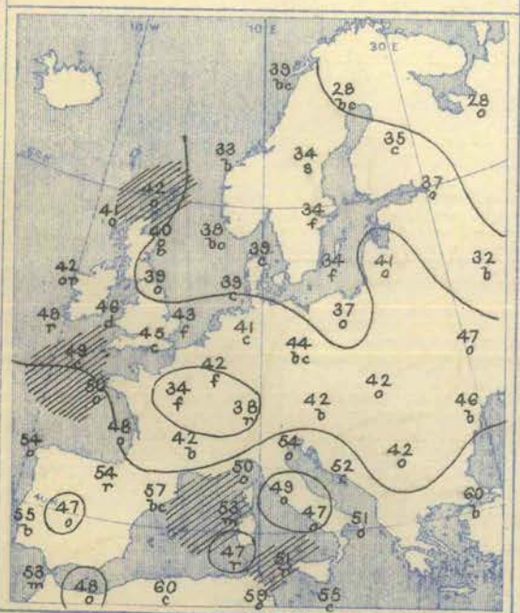
Temperature risen over our Islands and central Europe, but fallen elsewhere. Morning readings highest, 61° at Algiers, 60° at San Fernando and Oran, and 59° at Sfax and Constantinople; above 50° at the Mediterranean and Spanish coast stations generally. Lowest, 11° Fahr. at Archangel, 28° at Kuopio, 30° at Haparanda, 31° at Helsingfors, and 32° at Hangö; below 40° over northern and central Europe generally, and also over the central parts of our Islands. Rising during day to 50° and upwards in many parts of the United Kingdom, and to 55° at Nairn; exceeding 60° over southern Europe generally, and reaching 72° at San Fernando.

Wind light to moderate from the Southward in the west and north of our Islands. Easterly over northern Europe generally; Northerly over the greater part of England; strong from the North-Westward in the west and south of France, with a gale at Biarritz; Northerly to Easterly in Spain. Variable over Italy, Austria, and south Germany. Subsequently backing to the Southward in many parts of England, but veering to the North-Westward in the west and south of Ireland,

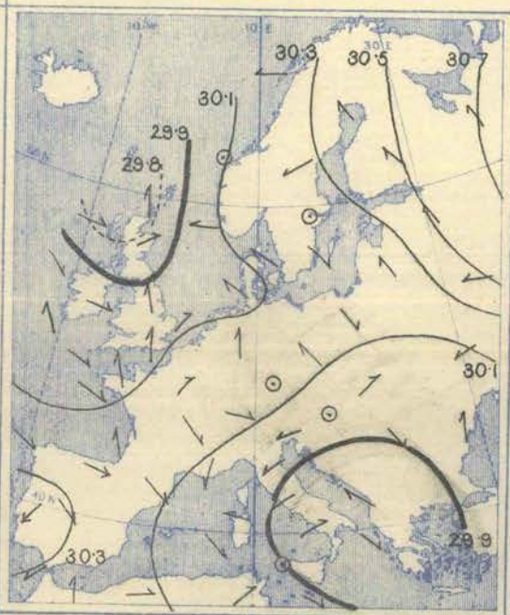
Barometer highest, 30·84 ins. at Archangel; 30·1 ins. and upwards in an anticyclone covering northern Europe generally, and also in another system over the Spanish Peninsula. Lowest, 29·9 ins. and less in four depressions—one lying to the westward of our Islands, another over the Netherlands, a third over Italy, and the fourth over the south of Russia. Depression to the westward of our Islands subsequently advancing eastwards as a "V" shaped system over our western coasts.

Friday, 9th April.

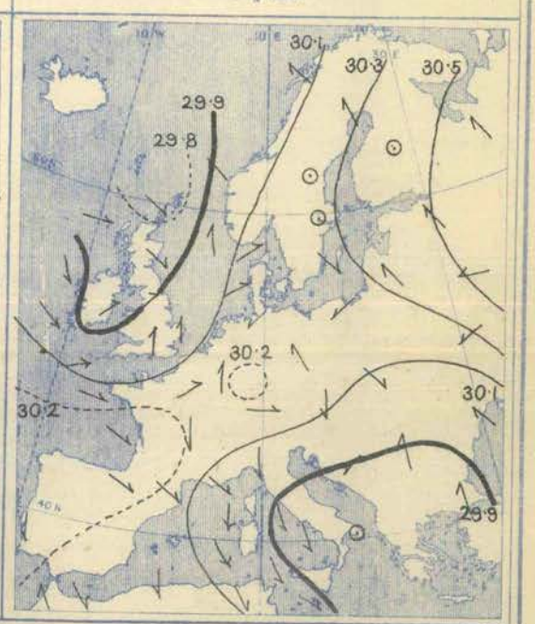
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy over the United Kingdom generally, with steady rain in the west and south of Ireland, and passing showers in some other localities. Fair over the western parts of the Continent as a whole, but with fog in places; dull in most of the eastern and southern counties, with rain at Biarritz, Turin, and Munich; snow reported at Hernösand. Rain falling later over nearly the whole of our Islands and the neighbouring parts of the Continent, as well as in southern Italy.

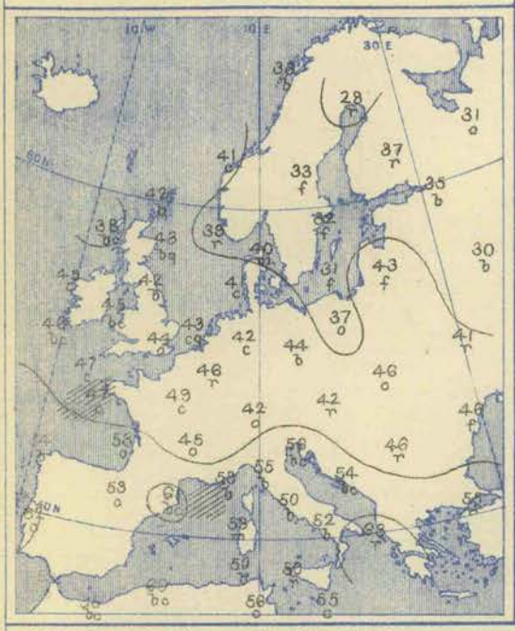
Temperature risen in most countries, but fallen over Italy and central France. Morning readings, highest, 60° at Constantinople and Algiers, 59° at Sfax, and 57° at Barcelona; above 50° at many of the Mediterannean, Adriatic, and Spanish coast stations. Lowest (1), 28° at Archangel and Haparanda, and 32° at Ulealborg, Karlstad, and Moscow; (2), 34° at Paris and Limoges, and 36° at Belfort; below 40° in the north-east of England. Rising during day to 50° and upwards in many parts of our Islands, and to 57° in London; exceeding 60° over southern Europe generally, and reaching 77° at San Fernando.

Wind light to moderate from the Westward or North-Westward over the western parts of our Islands generally, but Southerly in the south of Ireland. Southerly over all the more eastern parts of the United Kingdom, South-Easterly or Easterly over northern Europe generally. Rather variable over the southern parts of the Continent, but chiefly Northerly (North-East to North-West). Subsequently backing to the South-Westward in the west of England, but shifting to the North-Westward in Ireland.

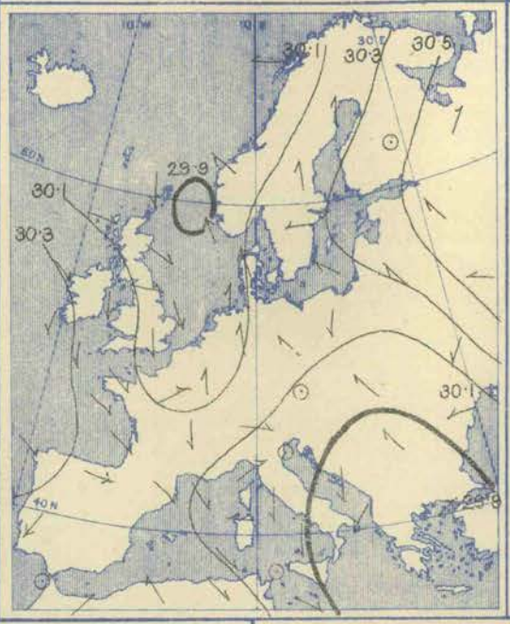
Barometer highest 30·69 ins. at Archangel; 30·2 ins. and upwards in an anticyclone over Sweden and northern Russia generally, and also in another system over the Spanish Peninsula. Lowest 29·8 ins. and less in a shallow depression off the north of Scotland, 29·9 ins. and less in a large area lying over Italy, Greece, and the neighbouring provinces, Scotch depression subsequently moving slowly Eastwards; "V" shaped secondary system advancing over our western coasts.

Saturday, 10th April.

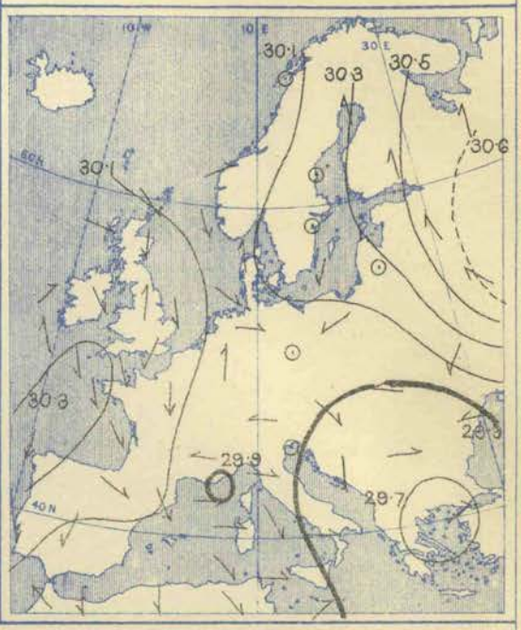
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the United Kingdom generally, but dull in the south-east of England, with rain on the Kentish coast. Fine over Spain, the extreme south of France and the northern and central parts of Italy, but cloudy in most other parts of the Continent, with fog in Sweden and rain in many parts of Austria, southern Italy, and eastern Germany, as well as at Skudesnaes, Brussels, and Limoges. Weather improving later in the south-east of England, but rain setting in at night in the west and south of Ireland.

Temperature fallen a little in our Islands but risen in most of the Continental countries. Morning readings highest, 63° at Brindisi, 62° at Lisbon, 61° at Barcelona, and 60° at Algiers; above 50° in most parts of southern Europe. Lowest, 28° at Ulearborg, 30° at Moscow, 31° at Archangel and Wisby, and 32° at Stockholm; below 40° over northern Europe generally and also in the Hebrides. Rising during day to between 50° and 55° in many parts of our Islands and reaching 58° at Leith; exceeding 60° in the south of France; exceeding 70° in Spain, and reaching 77° at San Fernando and Oporto. Sharp frost occurring over the inland parts of England at night; sheltered thermometer at Cambridge falling to 26°.

Wind light to fresh from the Northward or North-Westward over the greater part of our Islands and France; Southerly in the Netherlands; South-Easterly over northern Europe generally. Light from the Eastward over the central and southern parts of Russia; Northerly in Poland; variable in Austria; chiefly from the Northward in Italy. Subsequently backing to the Southward. South-Westward in the west of Ireland; no important change occurring in other parts of western Europe.

Barometer highest, 30·5 ins. and upwards in an anticyclone lying over northern and central Russia; 30·3 ins. and upwards in another system extending from the Atlantic over the south of Ireland and the north-west of Spain. Lowest, 29·9 ins. and less in a large shallow area lying over south-eastern Europe generally, and also in a depression lying between the Shetlands and the Norwegian coasts. Latter system filling up later, but new disturbance approaching our extreme western coasts in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of this week two high pressure systems have been observed—the one over Russia and Scandinavia, the other over the Spanish Peninsula. The general distribution has therefore been somewhat complex; and while several depressions have advanced over our Islands from the Atlantic, others have formed over the more central parts of the Continent. The winds have varied greatly, both in direction and force, and the weather has been very changeable, with frequent falls of rain in the more western and southern countries, and with snow in various parts of Sweden and northern Russia. Towards the close of the week the south-western high pressure system spread north-eastward over nearly the whole of western Europe, but at the close of the time further depressions were beginning to appear off our extreme western coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 80.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
EDINBURGH	31·9	+ 6·3	34	+ 6	EASTBOURNE	27·4	- 9·8	30	-11
OSWALDKIRK (Yorkshire)	41·6	+11·6	45	+14	SOUTHPORT	40·1	?	43	?
WORKSOP	30·8	+ 3·7	33	+ 2	COLWYN BAY				
THURCASTON (Leicestershire)	26·2	- 0·8	28	- 1	NEWQUAY				
MARGATE	38·7	+ 6·5	42	+ 6	TORQUAY	28·9*	-10·1	31*	-12
WESTBOURNE (Sussex)	31.6*	- 6·9	34*	-10	GUERNSEY	32·7*	?	36*	?
BRIGHTON	30·0	- 5·3	33	- 7					

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 15.] *Third Series.* WEEK ENDING SATURDAY, APRIL 17TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 86.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°		°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	29	48·6	36·3	42·1	1 below	25	+ 5	16	− 8	130	− 5	542	− 9
	1. SCOTLAND, EAST	59	26	50·1	36·5	43·0	0 (average)	30	+ 3	15	−11	163	− 19	584	− 1
	2. ENGLAND, N.E.	60	30	51·0	38·3	44·4	0 (average)	32	+ 7	10	−10	212	+ 31	440	− 66
	3. ENGLAND, EAST	63	26	53·9	37·8	45·5	0 (average)	42	+ 9	12	− 9	271	+ 42	462	−107
	4. MIDLAND COUNTIES	62	25	53·0	38·8	45·5	0 (average)	38	+ 1	9	−13	273	+ 21	467	−102
	5. ENGLAND, SOUTH	60	29	52·7	42·1	47·1	1 above	36	0	0	−17	309	+ 45	289	−167
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	56	26	49·1	38·7	43·7	1 below	26	− 2	9	− 9	175	− 20	402	− 19
	7. ENGLAND, N.W.	58	32	51·5	39·4	45·2	1 below	33	+ 4	7	− 9	221	+ 26	354	− 71
	8. ENGLAND, S.W.	56	30	51·5	41·9	46·5	0 (average)	32	− 3	0	−11	328	+ 37	216	−126
	9. IRELAND, NORTH	57	33	50·1	37·7	43·6	2 below	29	− 4	12	− 3	231	− 25	370	+ 5
	10. IRELAND, SOUTH	57	35	52·7	41·5	46·8	0 (average)	36	− 1	1	−10	378	+ 28	242	− 37
	—CHANNEL ISLANDS	59	37	53·6	44·3	48·8	0 (average)	48	+ 8	0	− 3	486	+114	68	− 79

Rainfall.

	DISTRICTS. (See p. 86.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	16	10 more	73	+ 1	12·9	− 2·0
	1. SCOTLAND, EAST	6	13	8 more	66	+10	8·2	− 0·2
	2. ENGLAND, N.E.	5	7	3 more	66	+13	7·3	+ 0·9
	3 ENGLAND, EAST	4	5	1 more	64	+12	7·9	+ 1·8
	4. MIDLAND COUNTIES	7	11	6 more	64	+14	9·4	+ 2·3
	5. ENGLAND, SOUTH	5	7	2 more	62	+14	10·4	+ 2·6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	18	12 more	68	+ 8	13·1	− 1·4
	7. ENGLAND, N.W.	7	15	11 more	71	+16	9·9	+ 1·3
	8. ENGLAND, S.W.	7	17	11 more	77	+22	16·0	+ 5·2
	9. IRELAND, NORTH	7	14	9 more	78	+14	11·7	+ 1·6
	10. IRELAND, SOUTH	7	18	12 more	74	+16	14·8	+ 3·6
	—CHANNEL ISLANDS	7	8	3 more	82	+21	13·6	+ 4·2

Bright Sunshine.

	DISTRICTS. (See p. 86.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	25	− 4	25	− 6	220	0	22	0
	1. SCOTLAND, EAST	32	+ 2	33	0	245	− 23	24	− 2
	2. ENGLAND, N.E.	27	− 3	28	− 4	262	− 5	25	0
	3 ENGLAND, EAST	33	− 2	34	− 4	276	− 28	26	− 2
	4. MIDLAND COUNTIES	28	− 3	30	− 4	261	− 19	24	− 2
	5. ENGLAND, SOUTH	29	− 8	30	−10	279	− 36	26	− 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	22	−12	23	−13	243	− 24	23	− 2
	7. ENGLAND, N.W.	23	−11	24	−12	243*	− 26	23	− 2
	8. ENGLAND, S.W.	24	−16	25	−18	231	− 63	26	− 6
	9. IRELAND, NORTH	25	− 6	27	− 6	252	− 10	24	− 1
	10. IRELAND, SOUTH	31	− 5	32	− 7	292	− 24	27	− 3
	—CHANNEL ISLANDS	28	−14	29	−16	298	− 85	28	− 7

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather continued in a very unsettled condition generally. Rain fell almost daily in the west and north-west, and very frequently elsewhere. Thunder and lightning occurred in many parts of the Kingdom during the middle or the latter end of the week.

Temperature just equalled the mean in most districts but was slightly above it in England S., and below it in Scotland N. and W., England N.W. and Ireland N. The highest of the maxima were registered, as a rule, on the 13th, and ranged from 63° in England E., and 62° in the Midland Counties, to 56° in England S.W and Scotland W., and to 55° in Scotland N. The lowest of the minima, which were recorded on the 11th, varied from 25° in the Midland Counties and 26° in Scotland E. and W. and England E. to 35° in Ireland S., and 37° in the Channel Islands.

Rainfall exceeded the mean in all districts. In the south and east of England the excess was slight, but in all other localities it was very large, the fall in many cases being considerably more than twice as much as the normal.

Bright Sunshine was less than the mean in all districts excepting Scotland E. The percentages of the possible duration ranged from 34 in England E., and 33 in Scotland E., to 25 in Scotland N. and England S.W., 24 in England N.W., and to 23 in Scotland W.

Barometer and Wind.—A series of rather large depressions moved north-eastward outside, or over, our extreme western and northern coasts, while several secondary disturbances passed directly over us. The winds were, consequently, Southerly to Westerly in direction, and though generally light or moderate in force, they increased considerably at times in the west and south-west, and on one or two occasions attained the force of a slight gale.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 85 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Differ. ence from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	47	34	45·4	37·6	41·3	0·0	10	16	7	0·98	+0·52	*	*	*	*
	Stornoway	50	30	46·7	35·3	40·7	- 2·1	13	25	7	1·62	+1·03	32·5	- 0·4	33	- 2
	Wick	52	35	49·6	38·4	43·7	+ 0·9	27	10	4	0·33	-0·06	*	*	*	*
	Lairg Ş	55	31	50·0	34·5	41·9	- 0·7	22	29	5	0·29	-0·26	*	*	*	*
	Glencarron Ş	53	32	48·2	34·2	40·9	- 1·8	17	30	6	2·61	+1·66	*	*	*	*
	Fort Augustus Ş	55	29	50·6	36·1	43·0	- 1·1	32	17	6	2·30	+1·85	24·6	- 0·7	25	0
	Fort William Ş	52	33	49·4	37·8	43·3	- 1·4	27	12	7	3·04	+2·25	?17·9	-?12·1	?18	-?14
1. SCOTLAND, E.	Nairn	59	30	52·4	35·0	43·3	- 0·5	39	20	5	0·37	+0·09	*	*	*	*
	Aberdeen	54	34	49·9	38·6	44·0	+ 0·4	28	10	5	1·22	+0·75	36·8	+ 2·8	38	+ 2
	Braemar Ş	48	26	45·8	33·4	39·3	- 1·2	11	31	7	2·05	+1·55	37·5†	+ 7·5†	38†	+ 6†
	Ochtertyre Ş	53	34	50·1	37·1	43·3	- 0·7	30	14	7	2·33	+1·81	*	*	*	*
	Leith	56	33	52·7	38·4	45·2	+ 0·4	33	10	6	0·37	+0·02	*	*	*	*
	Marchmont Ş	51	32	49·6	36·4	42·7	- 0·2	28	16	6	1·18	+0·66	27·8	- 2·1	29	- 4
2. ENGLAND, N.E.	Alnwick Castle	52	32	49·8	38·0	43·6	+ 0·9	28	11	7	0·83	+0·35	*	*	*	*
	Durham	58	30	51·3	36·2	43·4	- 0·3	34	16	6	0·59	+0·13	27·3	- 0·7	28	- 2
	Shields	53	35	50·4	38·7	44·3	+ 0·7	30	9	4	0·68	+0·28	*	*	*	*
	Scarborough M	52	34	50·4	38·0	43·9	- 0·6	30	11	4	0·75	+0·33	*	*	*	*
	York	60	33	53·6	38·7	45·8	+ 0·4	40	9	6	0·74	+0·34	27·2	- 3·3	27	- 5
	Spurn Head	53	35	50·3	40·4	45·1	+ 1·0	28	4	4	0·56	+0·25	*	*	*	*
3. ENGLAND, E.	Hillington M	63	27	54·8	36·7	45·3	- 0·4	45	15	4	0·55	+0·15	32·0	- 1·0	33	- 3
	Yarmouth	54	33	50·6	39·2	44·7	+ 0·3	30	8	4	0·46	+0·08	*	*	*	*
	Geldeston	56	29	54·2	37·7	45·6	+ 0·4	43	12	4	0·49	+0·13	28·1	*+ 1·2	40	0
	Cambridge	63	26	56·3	37·3	46·3	- 0·2	50	13	4	0·48	+0·11	30·9	- 4·1	33	- 5
	Rothamsted	59	26	53·8	38·0	45·5	+ 0·1	41	11	5	0·72	+0·25	28·8	- 4·8	30	- 6
4. MIDLAND COUNTIES	Harrogate M															
	Bawtry (Hesley Hall)	62	27	54·7	37·4	45·6	- 0·3	45	13	6	0·71	+0·33	*	*	*	*
	Loughborough	61	29	54·7	39·1	46·5	+ 0·1	44	8	7	1·44	+1·04	*	*	*	*
	Stamford (Duddington)	61	25	54·4	38·6	46·1	- 0·1	43	10	7	0·52	+0·12	*	*	*	*
	Cheadle M	58	33	50·1	36·8	43·1	- 1·4	30	15	7	1·59	+1·11	*	*	*	*
	Shirley (near Solihull)	58	32	52·1	39·2	45·3	+ 0·1	35	8	7	1·62	?	*	*	*	*
	Churchstoke M	56	31	51·9	38·4	44·8	+ 0·5	35	10	7	1·31	+0·90	30·0	- 2·7	31	- 4
	Hereford M	57	31	53·6	40·0	46·5	+ 0·3	40	6	7	0·64	+0·24	*	*	*	*
	Cirencester	55	30	51·7	38·9	45·0	+ 0 3	34	9	7	1·02	+0·54	26·1	- 7·7	28	- 8
	Oxford	58	30	53·4	40·4	46·7	0·0	40	4	7	0·70	+0·30	30·9	- 2·2	33	- 4
5. ENGLAND, S.	London	60	29	56·0	40·9	48·1	+ 0·4	47	3	6	0·32	-0·08	28·5†	+ 0·5†	30†	0†
	North Foreland	56	36	52·7	41·7	46·9	+ 2·6	36	1	4	0·42	?	*	*	*	*
	Dungeness	55	29	52·3	43·0	47·4	+ 1·2	38	0	4	0·20	-0·20	*	*	*	*
	Hastings (St. Leonards)	56	36	52·3	40·3	46·3	- 0·5	35	3	5	0·58	+0·12	30·9	- 8·1	33	- 9
	Southampton	57	35	53·7	42·3	47·7	- 0·2	40	0	5	0·86	+0·40	27·0	-11·0	28	-13
	Hurst Castle	55	41	51·4	45·3	48·2	+ 1·4	43	0	6	0·82	+0·42	*	*	*	*
	Shaftesbury M	52	35	50·2	40·5	45·1	- 0·2	28	4	6	1·43	+0·85	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	35	49·2	38·4	43·5	- 2·1	26	10	7	2·79	+1·93	*	*	*	*
	Glasgow	53	34	49·1	38·7	43·7	- 0·8	26	9	7	1·45	+0·97	19·0	- 8·8	20	- 9
	Ardrossan	52	36	48·7	39·9	44·1	- 1·2	24	6	7	1·00	+0·52	*	*	*	*
	Glenlee Ş	51	26	48·5	36·4	42·2	- 1·8	25	16	7	2·60	+1·93	*	*	*	*
	Gilcrux (Cumberland)	56	34	49·5	39·3	44·2	+ 0·3	27	8	7	1·49	?	22·0	?	23	?
	Douglas Isle of Man)	51	32	49·4	39·5	44·2	- 0·8	26	7	6	1·45	+0·90	24·9	-14·8	26	-17
7. ENGLAND, N.W.	Stonyhurst	56	34	50·2	38·5	44·1	- 0·8	29	10	7	1·86	+1·29	17·4	-13·9	18	-16
	Blackpool M	57	32	52·0	38·3	44·8	- 0·8	35	10	7	1·37	+0·97	22·4	- 7·9	23	- 9
	Manchester (Prestwich)	57	33	50·9	38·2	44·3	- 0·9	32	11	7	1·80	+1·35	20·3	?	21	?
	Liverpool Obsy. (Bidston)	58	35	52·0	40·0	45·7	- 0·6	34	6	7	1·08	+0·71	*	*	*	*
	Llandudno M	57	35	52·7	40·5	46·3	- 0·7	36	4	6	1·53	+1·11	*	*	*	*
	Holyhead	55	37	51·3	40·7	45·8	- 0·8	32	4	7	1·37	+0·95	*	*	*	*
8. ENGLAND, S.W.	Llandovery	56	31	53·3	38·7	45·7	- 0·2	40	9	7	2·12	+1·52	*	*	*	*
	Pembroke	50	39	48·9	42·9	45·8	- 0·5	27	0	7	1·21	+0·76	23·7	-16·3	25	-19
	Clifton	54	38	51·3	43·2	47·1	+ 1·0	36	0	7	2·44	+1·94	*	*	*	*
	Arlington (N. Devon)	54	32	50·4	40·3	45·1	- 0·5	29	5	7	2·35	+1·71	*	*	*	*
	Cullompton M	56	30	54·0	42·0	47·7	+ 0·1	40	0	7	1·27	+0·69	25·5	- 9·5	27	-10
	Falmouth	56	36	52·3	43·1	47·5	0·0	39	0	7	1·35	+0·68	20·0	-20·0	21	-23
	Plymouth	54	35	51·8	42·6	47·0	- 1·4	35	0	7	1·73	+1·21	23·5	-16·5	25	-17
	Prawle Point	53	36	50·0	42·6	46·1	- 0·4	29	0	6	0·88	+0·43	*	*	*	*
9. IRELAND, N.	Malin Head	50	34	47·6	38·7	42·9	- 2·9	20	9	7	0·93	?	*	*	*	*
	Londonderry	57	34	51·1	37·6	44·0	- 2·6	32	12	7	1·20	+0·69	*	*	*	*
	Edenfel (Omagh)	53	34	49·4	37·1	43·0	- 1·5	28	14	7	1·13	+0·65	*	*	*	*
	Belmullet	55	36	49·6	38·0	43·5	- 3·7	27	11	7	2·04	+1·46	*	*	*	*
	Markree Castle	54	34	51·1	38·2	44·3	- 1·4	32	11	7	1·45	+0·95	22·9	- 8·9	24	-11
	Armagh	54	35	51·2	38·1	44·3	- 0·7	32	11	7	1·29	+0·80	27·4	- 2·6	29	- 3
	Donaghadee	52	34	49·7	37·9	43·5	- 2·1	28	11	7	1·05	+0·60	*	*	*	*
	Edgeworthstown	53	33	51·3	36·2	43·4	- 2·1	34	16	7	1·94	+1·38	*	*	*	*
10. IRELAND, S.	Dublin	56	37	53·1	40·5	46·5	- 0·5	38	4	7	0·83	+0·35	31·9	- 4·3	33	- 6
	Parsonstown	55	35	53·4	39·3	46·0	0·0	39	8	7	1·30	+0·81	31·6	- 2·4	33	- 4
	Kilkenny	56	35	51·9	39·6	45·5	- 1·2	35	7	7	1·61	+1·11	*	*	*	*
	Roche's Point	54	40	51·9	43·3	47·4	- 0·4	38	0	7	2·20	+1·48	*	*	*	*
	Valencia	54	38	52·0	43·1	47·3	- 1·1	37	0	7	1·98	+1·12	29·3	- 8·7	31	-10
	Killarney	57	37	54·1	43·0	48·3	+ 1·2	44	0	7	1·75	?	*	*	*	*
	Foynes	?	37	?	40·7	?	?	?	?	7	2·81	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	41	53·6	43·6	48·4	- 0·1	45	0	7	0·82	+0·32	25·0	?	26	?
	Jersey	59	37	53·6	45·0	49·1	+ 0·3	50	0	7	0·74	+0·26	29·1	-14·5	31	-16

Stations marked M are in connection with the Royal Meteorological Society, and those marked Ş with the Scottish Meteorological Society.

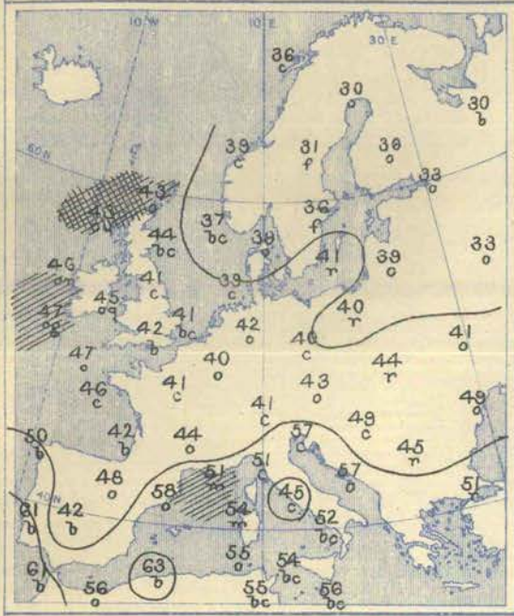
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 11th April.

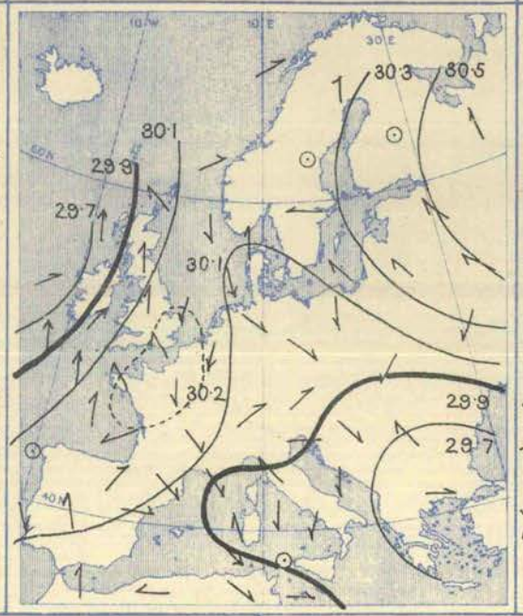
Temperature and Weather.

8 a.m.

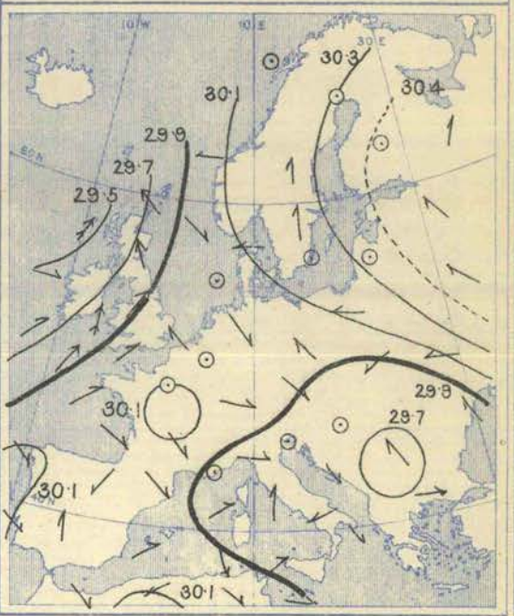


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright (1) over Algeria and Spain, the west and north of France, Holland and the eastern half of England and (2) over several parts of Scandinavia and the extreme north of Russia, cloudy or overcast elsewhere. Very rainy in the west of our Islands and in several parts of south-eastern Europe. Rain falling later over all the western and northern parts of our Islands, and locally over several parts of central and southern Europe; hail and thunderstorms in a few places.

Temperature in morning, highest 67° at Oporto, 63° at Algiers, 61° at Lisbon and San Fernando and ranging between 58° and 50° over the southern shores of the Mediterranean generally and the eastern shores of the Adriatic. Lowest 30° to 36° over Lapland, Finland and the north of Russia, 37° at Skudesnæs, 39° at Kharkov and Copenhagen, 40° at several of the North German Stations. Rising later to between 59° and 63° in many parts of our Islands, to 66° at Paris and Palermo, and to 68° on the Algerian coast.

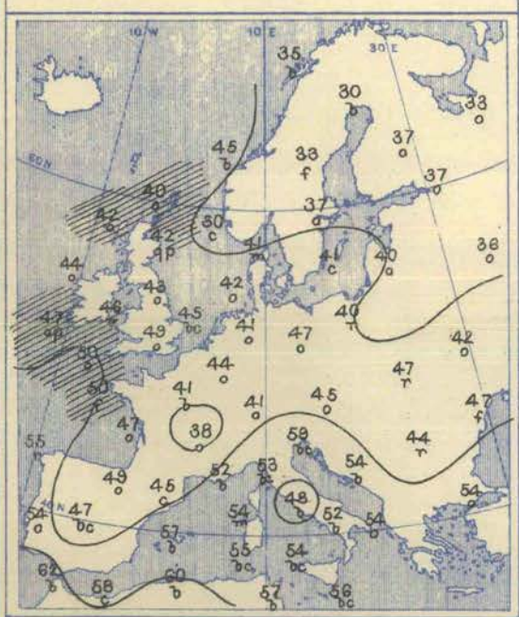
Wind (1) light over continental Europe generally, mainly Easterly over the northern countries, North-easterly to North-westerly over central Europe; light and variable over France and Spain. (2) Southerly over the British Islands, light over the eastern half of England, strong to a gale on our western and north-western coasts. Increasing in force over England later, no great change on the Continent.

Barometer highest, 30·5 ins. and more to 30·2 ins. in an anticyclone over northern Europe and ranging between 30·3 ins and 30·1 ins. over the north of Spain, the Bay of Biscay, the north of France, England, and the North Sea. Lowest, below 29·7 ins. in a depression over our north-western coasts on the one hand, and over European Turkey on the other. About 29·85 ins. in a small disturbance near the western coast of Corsica. Falling decidedly over the British Islands later (especially in the north-west), little change elsewhere.

Monday, 12th April.

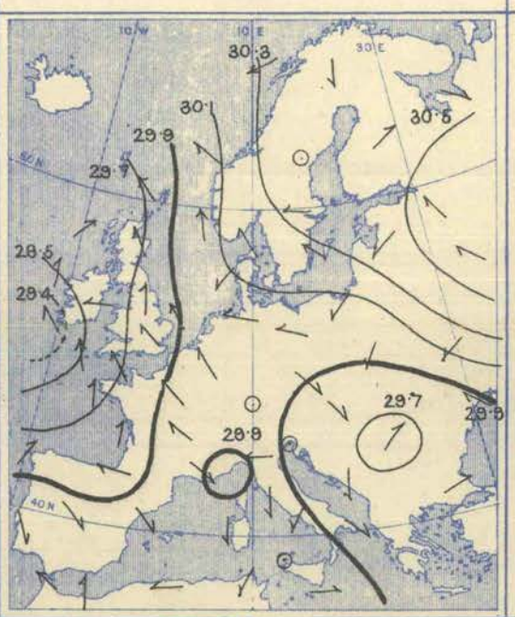
Temperature and Weather.

8 a.m.

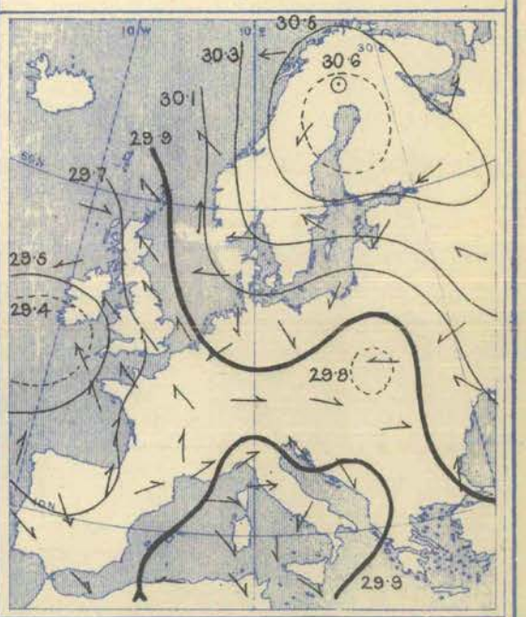


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over Russia, the Baltic, northern and western Germany, fine over Lapland, Norway and Scotland; dull and unsettled over Ireland and England, with rain at Valencia and Loughborough, dull and very rainy over Hungary, fine over the Mediterranean; much rain falling later over Brittany and the extreme south-west of our Islands, and small quantities over nearly the whole of the British Islands, in Sweden, eastern Germany and western Russia.

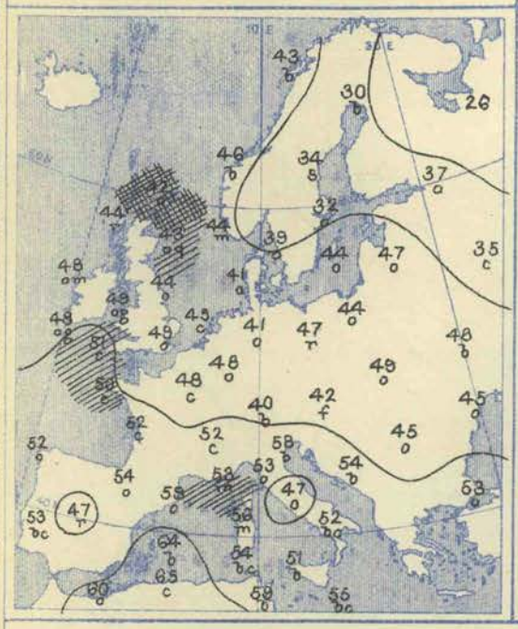
Temperature risen somewhat over the British Islands, but rather below the mean over the western countries generally. Morning readings highest, 62° at San Fernando, 60° at Algiers, 59° at Trieste, 55° at Corunna, 50° at Brest and Scilly. Lowest 30° to 37° over the north of Russia and Finland, 42° at Sumburgh Head, Aberdeen and York, 44° at Oxford. Rising later to between 50° and 55° over the greater part of Ireland and England, to 56° at Leith, 59° at Nairn and at Paris, and to 64° at Nice; touching 66° at Pesaro, Cagliari and Palermo, 75° at Oran, Sfax and Aumale.

Wind Easterly and moderate over the Baltic and north Germany, Easterly and South-Easterly in Norway, and blowing very strongly at Bodö; South-Easterly to Southerly over the British Islands, and blowing strongly on our south-western coasts; Easterly to South-Easterly and light over France. A cyclonic circulation of light winds prevailing over South-Eastern Europe. The South-Easterly wind becoming very strong on our west and south-west coasts later, and blowing a gale in places.

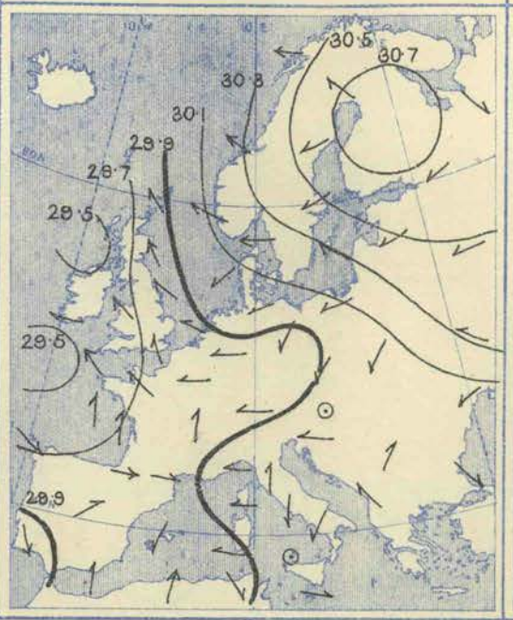
Barometer highest (1), 30·5 ins. and more over the northern half of Russia, exceeding 30·1 ins. over the Baltic and Scandinavia, and exceeding 30·0 ins. in a ridge extending southwards over western Germany; (2) 30·3 ins. in the Azores, and exceeding 30·0 ins. over the south-west of Spain. Lowest, below 29·4 ins. in a depression off our south-western coasts, and below 29·7 ins. over the eastern parts of Austria-Hungary. Depression in south-west moving slightly to the eastward later, but subsequently beginning to fill up.

Tuesday, 13th April.

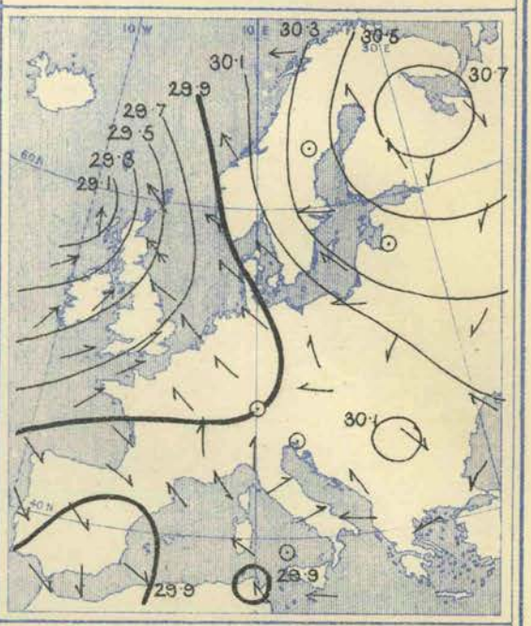
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over northern Europe, as well as at many of the Mediterranean and Adriatic stations, and in the south of Russia; cloudy elsewhere, and very changeable over the British Islands; rainy in the north-west and north. Heavy rain later over the last-named regions, and smaller quantities over the other parts of the British Islands, and locally in some parts of France, Germany, and Austria-Hungary.

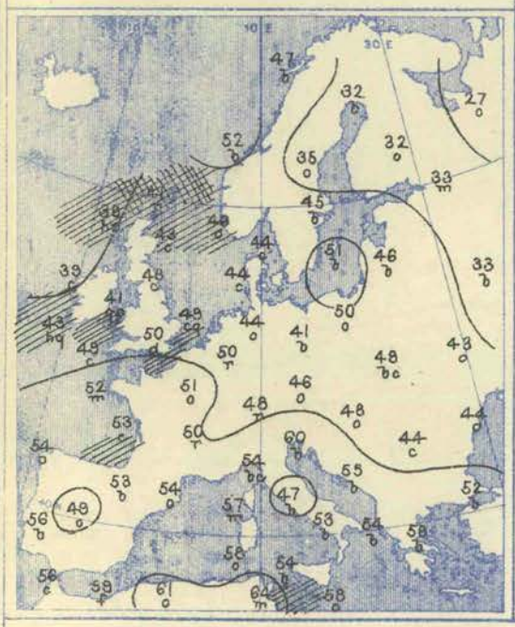
Temperature risen over western Europe generally. Morning readings highest, 65° at Algiers, 64° at Palma; exceeding 50° on the coasts of southern Europe generally, as well as at some of our own south-western stations. Lowest, 26° at Archangel, 30° at Haparanda, 34° at Kuopio and Hernösand, 35° at Karlstad, and below 40° at Faerder and the Scaw. Rising later to between 58° and 63° over England, to 66° at Paris, and to 67° at Perpignan, to 70° at Brindisi, and to between 70° and 79° over Algeria.

Wind Easterly over northern Europe, and blowing very strongly in the Gulf of Finland; South-Easterly to Southerly in our Islands, and blowing strongly in the north; Southerly in the north-west of France; Westerly to North-Westerly over Spain; light and variable over the Mediterranean and south-eastern Europe. Blowing a strong gale from South-East in the east of Scotland later, and becoming squally over Ireland and England also, as it veered to South and South-West in direction.

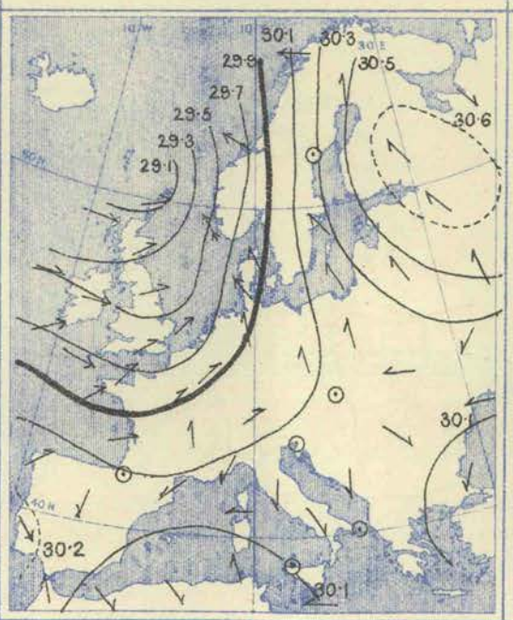
Barometer highest, (1) 30·7 ins. and more to 30·1 ins. in a large anticyclone covering all the northern parts of Europe; (2) 30·3 ins. in the Azores, and 29·9 ins. to 29·8 ins. over the south-western half of Spain. Lowest, below 29·5 ins. in two depressions—one lying off our south-west coasts, the other to the westward of Scotland. Former disturbance filling up later, the latter becoming deep and moving north-eastwards.

Wednesday, 14th April.

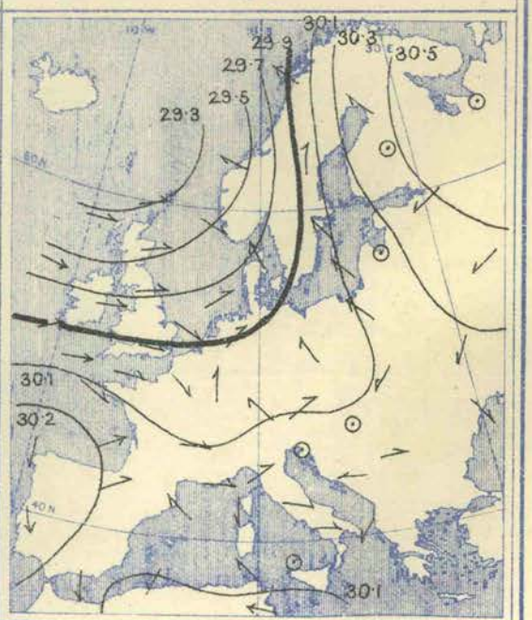
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the northern parts of Scandinavia, Russia and Finland, as well as in some parts of north Germany and in the south-west of Spain; cloudy, showery and unsettled over the British Islands and their neighbourhood, with hail in the extreme west and north-west. Hail showers very general in the west later, thunder and lightning over central England, and considerable rain in the south of Sweden.

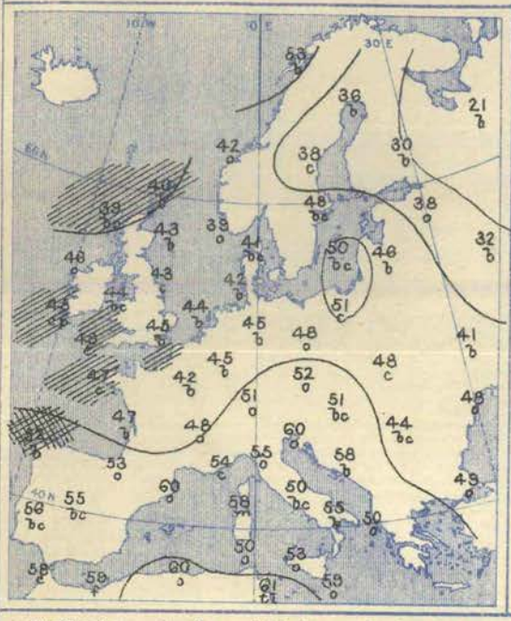
Temperature fallen over our northern districts, risen in the south and at many of the Continental stations. Morning readings highest, 61° at Algiers, 60° at Bilbao and Trieste, and exceeding 50° over southern Europe and the west of France, 52° at Memel, 51° at Wisby, the Helder and Wiesbaden; 50° at Loughborough (Leicester). Lowest, 27° at Archangel, 32° at Haparanda and Kuopio, 33° at Moscow, 38° at Stornoway, 41° at Sumburgh Head. Rising later to between 50° and 56° over Ireland and England, to 56° at Paris, to 61° at Berlin, 67° at Lyons and Perpignan.

Wind (1) moderate to strong from between North-West and South-West over the British Islands and the Channel, from South over north Germany, and from South-East over the Baltic and Sweden, and blowing a strong gale from between South-East and East at the Norwegian stations; (2) light and variable over southern and south-eastern Europe, as well as in the north of Russia. No decided change later.

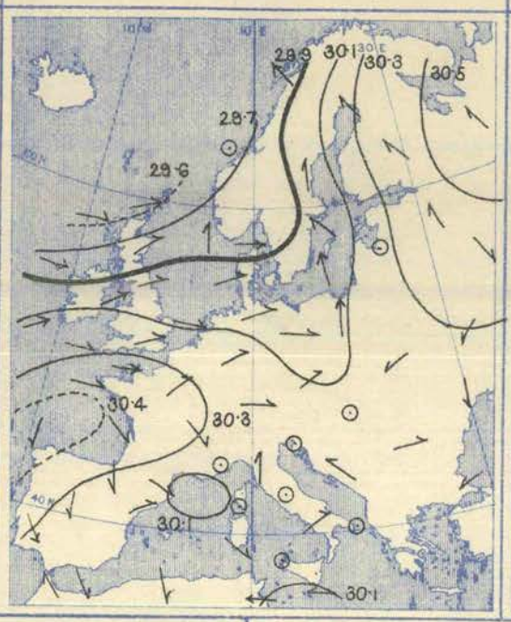
Barometer highest (1) 30·6 ins. and more to 30·2 ins. in a large anticyclone lying over the northern half of Russia; (2) 30·2 ins. and more in the south-west of Spain, and exceeding 30·1 ins. in a broad band covering the whole of southern and south-eastern Europe. Lowest, 29·1 ins. and less in a depression lying off the north of Scotland. The latter system moving northwards later, and the barometer rising all over our Islands, France and Spain.

Thursday, 15th April.

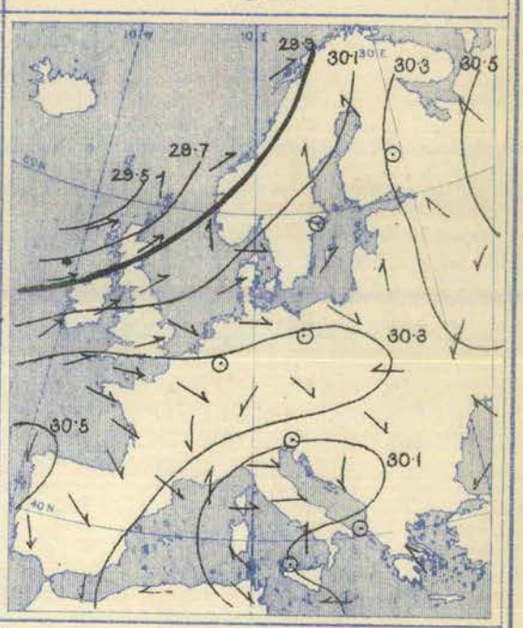
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Russia, the Baltic, and nearly the whole of south-western, southern, and south-eastern Europe, as well as in most parts of the British Islands; dull over the north and west of Germany; dull and showery in the extreme west of Ireland. Rain falling later over Sweden and the greater part of the United Kingdom—heavily on our north-western coasts, slightly in the east and south; hail at some of our western stations—sharp local showers.

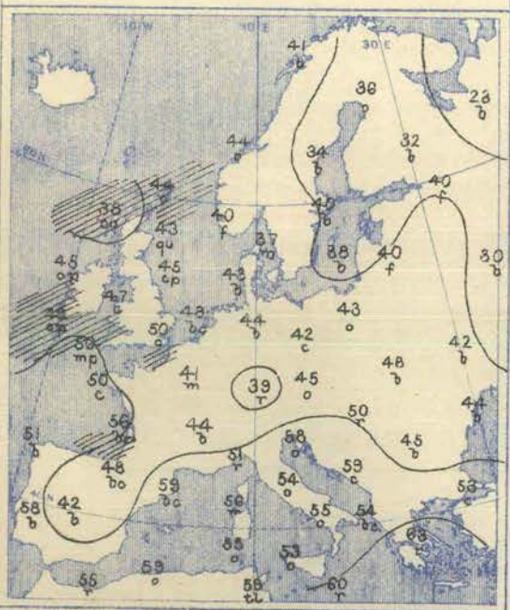
Temperature fallen fast over the western countries. Morning readings highest, 60° to 50° over the Mediterranean, 58° to 56° on the Portuguese coast, 53° at Bilbao and at Jersey. Lowest, 21° at Archangel, 32° at Moscow, 36° to 38° in the north of Sweden, 39° at Stornoway, 40° at Sumburgh Head, 41° at the Scaw, 42° at Fanö and York. Rising during day to between 50° and 54° over the greater part of the United Kingdom, to 57° at Cambridge and Wiesbaden, 58° at Paris, and 64° at Biarritz and Lisbon; touching 68° at Lesina and several of the Italian stations, and to 79° at Biskra (Algeria).

Wind (1) light and anticyclonic over Russia and many parts of western Europe; (2) South-Westerly to Westerly over the British Islands and North Sea, moderate to strong in force; Southerly to South-Easterly in the west of Norway; (3) light and very variable over the Mediterranean. Backing to South-West on our western coasts later, and increasing in force.

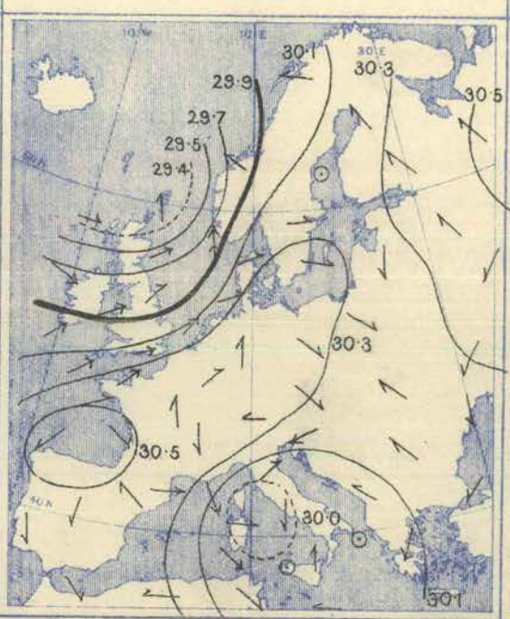
Barometer highest, (1) 30·5 ins. and more to 30·3 ins. in an anticyclone over the northern half of Russia; (2) 30·4 ins. and more to 30·3 ins. in another lying over the Bay of Biscay, Spain, and the west of France, and exceeding 30·1 ins. over nearly the whole of central and southern Europe. Lowest, below 29·6 ins. off the extreme north of Scotland. Rising over western and north-western Europe all day, but tending to fall again in the extreme west of Ireland at night.

Friday, 16th April.

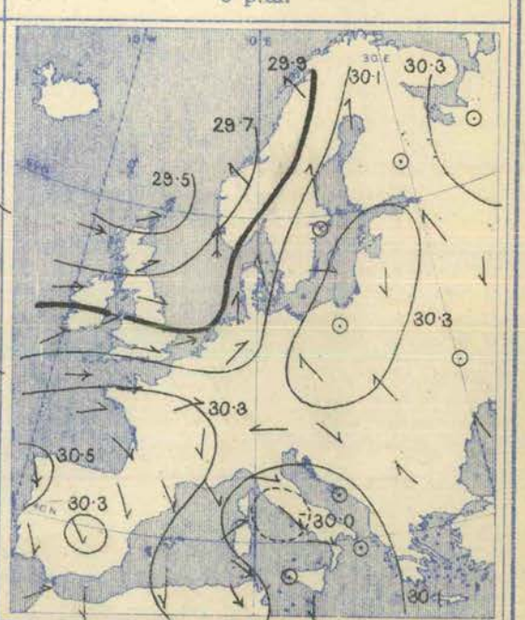
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Russia, and also over many parts of south-western Europe, the Netherlands, and the extreme east of England; overcast and showery over the British Islands as a whole, with sleet at Nairn; very rainy over Austria and the south-east of France, and unsettled over the Mediterranean generally. Rain falling later over the whole of north-western Europe, as well as in Italy; thunderstorms occurring over the north-eastern and eastern parts of England, and both solar and lunar halos seen over the southern parts of our Islands.

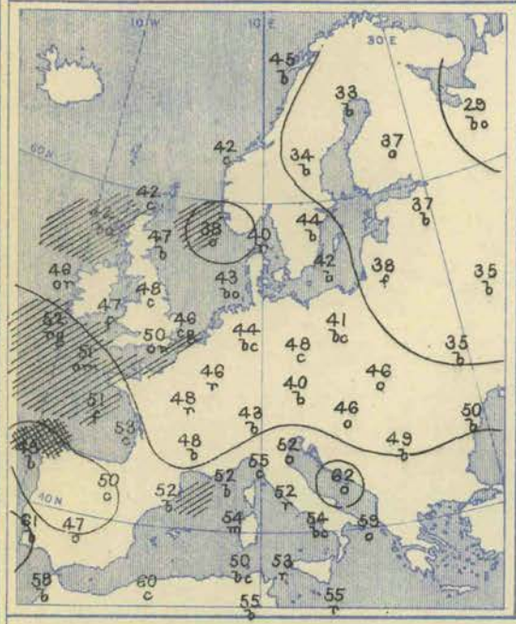
Temperature falling over the greater part of western and central Europe, changing little and fitfully over the British Islands. Morning readings highest, 63° at Patras, 60° at Malta, 59° at Algiers and Barcelona, 58° at Lisbon, 50° along the west coast of France, at Jersey, and at several stations in the south of our Islands. Lowest, 23° at Archangel, 30° at Moscow, 34° at Hernösand, 37° at the Scaw, 39° at Nairn. Rising later to between 50° and 55° over the greater part of the United Kingdom, and to 57° in London; exceeding 65° over southern Europe generally, and exceeding 70° at some of the Spanish and Italian stations.

Wind (1) light and anticyclonic over Spain, central Europe, and Russia; (2) Westerly to Southerly and strong over the British Islands and North Sea; Southerly, a gale at Skudesnaes, and Easterly, moderate, in the north-west of Norway; (3) a well-defined cyclonic circulation prevailing over the Mediterranean and the northern parts of the Adriatic. Wind moderating over the United Kingdom later, but tending to back again in the far west.

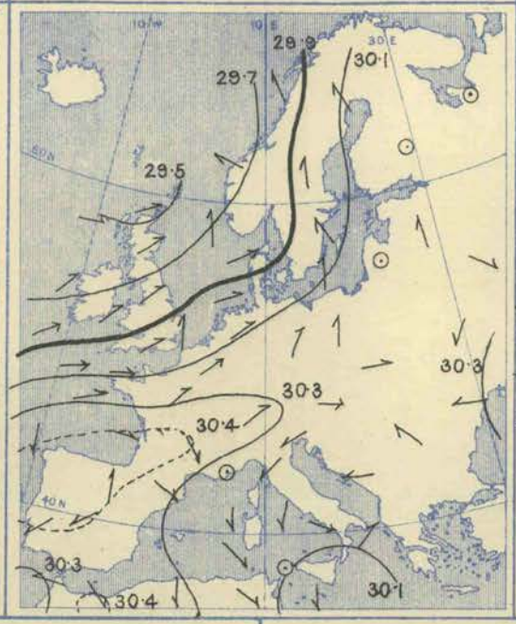
Barometer highest, 30·5 ins. and more to 30·3 ins. (1) in an anticylone lying over Russia; (2) in a similar system over the Bay of Biscay and Spanish Peninsula, and stretching eastwards as a ridge over the central parts of France and Germany. Lowest, (1) 29·4 ins. and less over the Shetlands and north of Scotland (gradients being steep over the British Islands); (2) below 30·0 ins. over the northern parts of Scandinavia. Very unsteady over the United Kingdom later, rising over Continental Europe.

Saturday, 17th April.

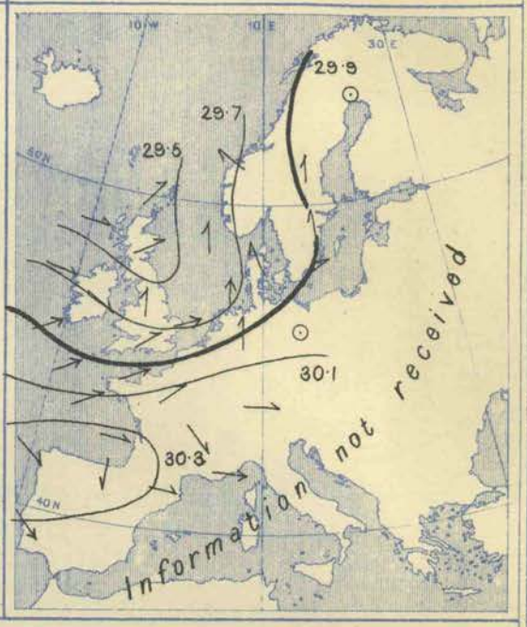
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull and rainy in most parts of Ireland, England, the Netherlands, and the north of France, as well as in the south of Norway and the north of Denmark. Fine over the northern parts of Scotland and also in Sweden, Russia and Germany; dull in Italy, with rain at Rome and Palermo, as well as at Malta; fine in the south of France and on the coasts of the Spanish Peninsula. Rain falling later over nearly the whole of our Islands and their immediate neighbourhood, but amounts mostly slight.

Temperature risen in most countries. Morning readings highest, 62° at Lesina, 61° at Lisbon, 60° at Algiers, and 59° at Brindisi; above 50° over southern Europe generally. Lowest 29° at Archangel, 32° at Helsingfors, 33° at Haparanda, 34° at Hernösand and 35° at Moscow, Kiev and Kharkow; below 40° over Russia and the northern parts of Sweden generally. Rising during day to between 50° and 55° over the United Kingdom generally, and reaching 56° in London and at Cambridge. Exceeding 65° in the extreme south of France, and rising to 77° at Lisbon.

Wind South-Westerly or Westerly over our Islands, Denmark, the Netherlands, Germany and the northern parts of France; strong in force on our own southern coasts, with a gale at Pembroke. Moderate to strong from the Southward or South-Eastward over Scandinavia and northern Russia. Light from the northward over the greater part of southern Europe, but rather variable in the south of France. Subsequently veering to the North-Westward on some parts of our western coasts; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards over the south-west of France and the northern parts of the Spanish Peninsula; 30·3 ins. to 30·2 ins. over Russia. Lowest, 29·5 ins. and less in a large depression lying off the north of Scotland. Secondary disturbances appearing later over the northern and north-eastern parts of the United Kingdom, and afterwards passing away across the North Sea; barometer rising again on our extreme western coasts.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a fight to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the first few days of this week pressure was highest over the northern half of Russia, whence a ridge stretched in a south-westerly direction across Germany and France to Spain. Over the British Islands and off our extreme western coasts depressions appeared moving in a north-easterly direction and causing very rainy weather over the western and north-western districts, with hail and thunder in some localities, while other disturbances of slighter intensity over south-eastern Europe and the Mediterranean produced rain in several parts of those regions and showers over the central parts of the Continent as well.

After Tuesday there was some modification. A new high-pressure area began to stretch over south-western and southern Europe from the Atlantic, while that in the north receded slowly towards the north-eastern and eastern parts of Russia. The depressions which reached our north-western coasts were accompanied by secondary disturbances which passed directly over Ireland and England, and then while the rain in the west and north-west was still heavy there was an alternation of showers and clear skies over our southern, eastern, and north-eastern districts, with thunderstorms in several places.

Temperature did not differ much from the mean, nor was its range by any means great.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 86.

STATIONS.	No. of Hours recorded.	Difference from the Means for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
EDINBURGH	24·9	− 2·1	26	− 3	EASTBOURNE	28·9	−10·0	30	−12
OSWALDKIRK (Yorkshire)					VENTNOR	28·1	?	30	?
WORKSOP	26·7	− 1·3	28	− 3	SOUTHPORT	24·7	?	26	?
THURCASTON (Leicestershire)	27·7	− 1·3	29	− 1	COLWYN BAY	31·9	?	33	?
MARGATE	28·5	− 5.4	30	− 7	NEWQUAY	23·7	−15·9	25	−17
WESTBOURNE (Sussex)	30·0*	−10·5	32*	−13	TORQUAY	27·7*	−13·1	29*	−15
BRIGHTON	28·3	− 9·7	30	−12	GUERNSEY	28·7*	−14·3	30*	−17

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 16.] *Third Series.* WEEK ENDING SATURDAY, APRIL 24TH, 1897. [*Price 6d. Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 92.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	27	51·4	36·3	43·5	1 below	34	+ 9	16	- 3	164	+ 4	558	- 12
	1. SCOTLAND, EAST	60	25	50·7	35·7	42·8	2 below	32	+ 1	18	- 1	195	- 18	602	- 2
	2. ENGLAND, N.E.	57	33	49·1	38·6	43·6	1 below	25	- 3	10	- 4	237	+ 28	450	- 70
	3. ENGLAND, EAST	57	32	51·5	39·2	45·0	1 below	33	- 6	8	- 7	304	+ 36	470	-114
	4. MIDLAND COUNTIES	57	30	52·1	38·8	45·2	2 below	36	- 6	9	- 7	309	+ 15	476	-109
	5. ENGLAND, SOUTH	60	37	52·8	41·6	47·0	1 below	37	- 5	1	- 8	346	+ 40	290	-175
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	57	27	51·8	37·1	44·1	2 below	35	+ 2	14	+ 1	210	- 18	416	- 18
	7. ENGLAND, N.W.	55	34	50·7	39·7	44·9	2 below	30	- 5	6	- 5	251	+ 21	360	- 76
	8. ENGLAND, S.W.	59	32	52·3	41·1	46·5	1 below	35	- 6	3	- 4	363	+ 31	219	-130
	9. IRELAND, NORTH	63	33	51·8	38·0	44·6	2 below	35	- 2	11	+ 1	266	- 27	381	+ 6
	10. IRELAND, SOUTH	60	35	53·7	41·9	47·5	1 below	39	- 4	0	- 7	417	+ 24	242	- 44
	—CHANNEL ISLANDS	61	39	53·9	45·8	49·7	0 (average)	54	+ 9	0	- 1	540	+123	68	- 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 92.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	2	4 less	75	- 1	13·1	- 2·4	61	+29	60	+27	281	+ 29	25	+ 3
	1. SCOTLAND, EAST	2	1	3 less	68	+ 9	8·3	- 0·5	41	+ 9	41	+ 8	286	- 14	25	- 2
	2. ENGLAND, N.E.	3	1	3 less	69	+12	7·4	+ 0·7	38	+ 7	38	+ 6	300	+ 2	26	0
	3 ENGLAND, EAST	4	3	1 less	68	+12	8·2	+ 1·7	42	+ 5	42	+ 4	318	- 22	27	- 2
	4. MIDLAND COUNTIES	3	4	0 (average)	67	+14	9·8	+ 2·4	43	+10	44	+ 9	304	- 9	26	- 1
	5. ENGLAND, SOUTH	2	3	2 less	64	+12	10·7	+ 2·5	50	+10	51	+10	329	- 25	28	- 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	2	3 less	70	+ 7	13·3	- 1·7	51	+15	51	+12	294	- 10	25	- 1
	7. ENGLAND, N.W.	3	5	2 more	74	+16	10·4	+ 1·4	48	+15	48	+15	291	- 10	25	- 1
	8. ENGLAND, S.W.	3	4	1 less	80	+12	16·4	+ 5·2	39	- 3	40	- 4	320	- 65	27	- 6
	9. IRELAND, NORTH	3	6	1 more	81	+14	12·3	+ 1·8	45	+12	45	+11	297	+ 1	26	0
	10. IRELAND, SOUTH	3	5	1 less	77	+16	15·3	+ 3·5	40	+ 2	41	+ 1	332	- 22	29	- 2
	—CHANNEL ISLANDS	4	4	1 less	86	+21	14·0	+ 4·1	36	- 7	37	- 8	334	- 92	29	- 7

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather continued unsettled, with rain at times, during the earlier part of the period, but later on it became dry and fine—first in the north and west, and subsequently in the other parts of the Kingdom.

Temperature was rather below the mean in all districts, excepting the Channel Islands. The highest of the maxima, which were recorded during the earlier part of the week, ranged from 63° in Ireland N. (at Londonderry), and 61° in the Channel Islands, to 57° in Scotland W. and over central and eastern England, and to 55° in England N.W. The lowest of the minima were registered on the 23rd, and ranged from 25° in Scotland E., and 27° in Scotland N. and W., to 30° in the Midland counties, 37° in England S., and 39° in the Channel Islands.

Rainfall was rather more than the mean in England N.W. and Ireland N., and just equal to it in the Midland counties; in all other districts, however, there was a deficit.

Bright Sunshine exceeded the mean in all districts except England S.W. and the Channel Islands. In the extreme north the excess was very large. The percentage of the possible duration ranged from 60 in Scotland N. to 51 in England S. and Scotland W., and to 37 in the Channel Islands.

Barometer and Wind.—During the earlier part of the week depressions continued to reach different parts of the Kingdom from the Atlantic, and caused the wind to vary between South-West and North-West. By Wednesday, however, an anticyclone had begun to form in the north, and the system increasing both in size and intensity, gradually embraced nearly the whole of our Islands. The wind subsequently shifted to the Eastward or North-Eastward very generally, and, although light in most places, increased considerably in the south, and blew with the force of a moderate to fresh gale on the coasts of the English Channel.

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II.—DATA from which the SUMMARY on page 91 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℑ	48	34	47·0	37·9	42·2	0·0	19	11	2	0·02	−0·40	*	*	*	*
	Stornoway	55	33	51·0	36·7	43·5	− 0·3	33	15	3	0·10	−0·44	64·1	+27·3	62	+25
	Wick	52	30	50·1	36·0	42·7	− 1·1	30	17	3	0·09	−0·33	*	*	*	*
	Lairg ℑ	57	27	53·2	35·4	43·9	+ 0·3	41	18	2	0·17	−0·23	*	*	*	*
	Glencarron ℑ	57	32	51·7	34·7	42·8	− 1·0	36	20	3	0·40	−0·50	*	*	*	*
	Fort Augustus ℑ	59	29	52·0	36·3	43·8	− 1·9	37	16	2	0·08	−0·40	56·8	+29·9	56	+29
	Fort William ℑ	60	34	55·0	37·1	45·6	− 0·5	46	14	2	0·32	−0·47	62·0	+28·5	61	+27
1. SCOTLAND, E.	Nairn	60	25	52·3	33·9	42·7	− 2·4	39	23	1	0·07	−0·22	*	*	*	*
	Aberdeen	53	34	49·6	37·6	43·3	− 1·1	28	12	2	0·06	−0·38	48·4	+12·5	47	+11
	Braemar ℑ	53	27	49·4	33·6	41·1	− 0·6	21	32	3	0·13	−0·39	43·6†	+12·1†	43†	+11†
	Ochtertyre ℑ	59	29	54·4	36·4	45·0	− 0·2	45	16	1	0·08	−0·40	*	*	*	*
	Leith	60	32	50·6	37·7	43·8	− 1·9	31	12	1	0·13	−0·17	*	*	*	*
	Marchmont ℑ	54	31	47·6	34·9	41·0	− 3·0	16	27	1	0·03	−0·45	37·8	+ 5·3	37	+ 3
2. ENGLAND, N.E.	Alnwick Castle	53	34	47·1	37·6	42·1	− 1·5	19	12	3	0·13	−0·29	*	*	*	*
	Durham	57	35	49·9	36·9	43·1	− 1·4	20	14	4	0·13	−0·27	33·6	+ 4·9	34	+ 5
	Shields	52	36	48·7	38·6	43·4	− 1·0	24	10	2	0·05	−0·32	*	*	*	*
	Scarborough ℳ	51	39	47·5	39·6	43·4	− 1·7	20	7	4	0·16	−0·24	*	*	*	*
	York	56	33	52·3	38·0	44·8	− 1·8	36	11	3	0·11	−0·24	47·5	+15·4	48	+15
	Spurn Head	52	40	49·3	41·1	45·0	− 0·2	25	3	3	0·17	−0·11	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	55	36	51·5	38·6	44·7	− 1·9	33	10	4	0·14	−0·23	39·2	+ 3·6	40	+ 3
	Yarmouth	53	39	49·3	41·1	45·0	− 0·3	25	3	4	0·38	+0·04	*	*	*	*
	Geldeston	55	37	51·3	39·6	45·2	− 1·0	32	7	4	0·20	−0·02	39·8	+ 1·2	40	0
	Cambridge	57	32	54·0	37·6	45·4	− 2·3	42	12	3	0·27	−0·08	47·3	+10·5	48	+10
	Rothamsted	55	36	51·5	38·9	44·9	− 1·7	33	9	3	0·20	−0·27	40·6	+ 5·8	41	+ 5
4. MIDLAND COUNTIES	Harrogate ℳ															
	Bawtry (Hesley Hall)	57	30	54·0	37·4	45·3	− 1·9	42	13	3	0·17	−0·16	*	*	*	*
	Loughborough	57	36	52·7	40·0	46·1	− 1·6	37	6	3	0·34	−0·02	*	*	*	*
	Stamford (Duddington)	55	36	51·6	39·1	45·1	− 2·4	34	8	3	0·48	+0·10	*	*	*	*
	Cheadle ℳ	52	35	49·2	38·1	43·4	− 2·1	26	11	3	0·48	+0·06	*	*	*	*
	Shirley (near Solihull)	54	35	51·0	38·3	44·4	− 2·3	32	10	3	0·29	?	*	*	*	*
	Churchstoke ℳ	56	35	52·1	38·2	44·8	− 0·4	36	11	2	0·28	−0·11	40·2	+ 6·1	41	+ 6
	Hereford ℳ	?	?	?	?	?	?	?	?	2	0·17	−0·21	*	*	*	*
	Cirencester	57	35	52·9	38·9	45·6	− 0·5	38	9	3	0·30	−0·12	48·3	+12·3	49	+11
	Oxford	57	38	53·3	40·3	46·5	− 1·3	39	5	3	0·67	+0·30	46·6	+11·4	47	+10
5. ENGLAND, S.	London	59	38	54·4	41·9	47·9	− 1·0	42	0	3	0·27	−0·12	38·9†	+ 8·9†	39†	+ 8†
	North Foreland	55	41	50·7	42·9	46·6	+ 1·3	32	0	2	0·35	?	*	*	*	*
	Dungeness	57	39	52·1	43·0	47·3	0·0	37	0	3	0·14	−0·20	*	*	*	*
	Hastings (St. Leonards)	56	37	51·3	40·9	45·9	− 2·1	32	3	2	0·38	0·00	49·9	+ 8·9	51	+ 8
	Southampton	60	37	56·4	40·9	48·3	− 1·0	49	3	3	0·26	−0·17	53·1	+13·3	54	+12
	Hurst Castle	57	41	53·4	43·3	48·1	− 0·1	43	0	2	0·23	−0·12	*	*	*	*
	Shaftesbury ℳ	54	34	51·5	38·6	44·7	− 2·0	33	10	2	0·22	−0·38	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	57	32	54·2	36·5	44·9	− 1·7	43	15	2	0·23	−0·55	*	*	*	*
	Glasgow	53	35	50·8	38·1	44·2	− 1·5	32	11	1	0·10	−0·30	51·0	+21·0	50	+19
	Ardrossan	54	34	51·3	38·6	44·7	− 1·6	33	10	2	0·08	−0·32	*	*	*	*
	Glenlee ℑ	54	27	52·5	34·6	43·1	− 2·1	39	21	2	0·13	−0·42	*	*	*	*
	Gilcrux (Cumberland)	53	32	51·2	36·5	43·5	− 1·4	34	15	4	0·18	?	51·7	?	52	?
	Douglas Isle of Man)	53	35	50·9	38·1	44·2	− 2·0	32	11	3	0·66	+0·20	50·4	+ 8·4	50	+ 6
7. ENGLAND, N.W.	Stonyhurst	51	34	49·7	38·3	43·7	− 2·4	27	10	3	0·33	−0·16	50·0	+16·2	50	+15
	Blackpool ℳ	55	34	52·6	38·9	45·4	− 1·4	37	9	3	0·44	+0·12	48·3	+15·8	49	+14
	Manchester (Prestwich)	52	37	50·5	38·8	44·4	− 1·7	30	9	3	0·41	+0·01	47·2	?	47	?
	Liverpool Obsy. (Bidston)	53	37	51·1	40·4	45·5	− 2·1	31	4	3	0·60	+0·32	*	*	*	*
	Llandudno ℳ	54	37	50·1	40·8	45·2	− 2·7	27	3	3	0·74	+0·39	*	*	*	*
	Holyhead	53	39	50·3	40·9	45·4	− 2·2	28	3	3	0·63	+0·27	*	*	*	*
8. ENGLAND, S.W.	Llandovery	58	37	54·4	39·6	46·6	− 0·1	42	7	3	0·30	−0·20	*	*	*	*
	Pembroke	52	39	51·0	42·9	46·8	− 0·1	34	0	3	0·57	+0·23	44·4	+ 1·5	45	0
	Clifton												*	*	*	*
	Arlington (N. Devon)	57	35	51·7	39·4	45·3	− 0·8	34	7	3	0·39	−0·11	*	*	*	*
	Cullompton ℳ	59	32	54·2	39·8	46·7	− 1·8	42	6	2	0·12	−0·48	41·0	+ 4·4	42	+ 4
	Falmouth	55	41	51·8	43·0	47·2	− 1·1	36	0	4	0·61	−0·07	35·8	− 6·8	37	− 8
	Plymouth	55	37	52·5	41·6	46·8	− 2·4	35	1	3	0·54	+0·06	37·1	− 3·9	38	− 5
	Prawle Point	53	40	50·4	41·6	45·8	− 1·4	28	1	2	0·38	−0·02	*	*	*	*
9. IRELAND, N.	Malin Head	49	34	48·3	39·0	43·4	− 3·2	22	8	2	0·27	?	*	*	*	*
	Londonderry	63	34	56·3	37·3	46·2	− 1·5	49	13	3	0·31	−0·11	*	*	*	*
	Edenfel (Omagh)	55	33	52·1	36·4	43·9	− 1·8	37	16	3	0·59	+0·14	*	*	*	*
	Belmullet	55	37	52·3	40·1	45·9	− 2·1	35	5	3	1·13	+0·65	*	*	*	*
	Markree Castle	55	35	52·2	38·4	45·0	− 1·5	36	10	4	0·60	+0·13	41·7	+ 7·2	42	+ 6
	Armagh	57	33	51·3	36·4	43·5	− 2·6	34	16	3	0·51	+0·01	47·3	+14·3	47	+13
	Donaghadee	55	35	51·3	38·7	44·7	− 1·4	33	9	4	0·42	+0·04	*	*	*	*
	Edgeworthstown	53	35	50·9	37·5	43·9	− 2·8	32	13	3	0·78	+0·26	*	*	*	*
10. IRELAND, S.	Dublin	55	39	52·1	41·5	46·6	− 1·4	34	1	3	0·55	+0·11	44·0	+ 5·3	44	+ 4
	Parsonstown	59	35	54·1	39·7	46·6	− 0·5	42	6	2	0·44	−0·01	37·2	+ 1·2	38	0
	Kilkenny	55	35	53·1	40·3	46·4	− 1·3	38	5	3	0·36	−0·12	*	*	*	*
	Roche's Point	54	40	51·9	43·3	47·4	− 1·2	38	0	3	0·67	−0·05	*	*	*	*
	Valencia	60	39	55·6	44·6	49·8	+ 0·8	55	0	4	0·66	−0·22	40·0	0·0	40	0
	Killarney	59	36	55·1	41·7	48·1	0·0	44	1	4	0·28	?	*	*	*	*
	Foynes	?	36	?	40·7	?	?	?	?	3	0·74	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	57	42	53·6	45·7	49·5	+ 0·7	53	0	4	0·32	−0·14	30·4	?	31	?
	Jersey	61	39	54·1	45·9	49·8	0·0	55	0	3	0·38	−0·02	36·0	− 9·5	37	−11

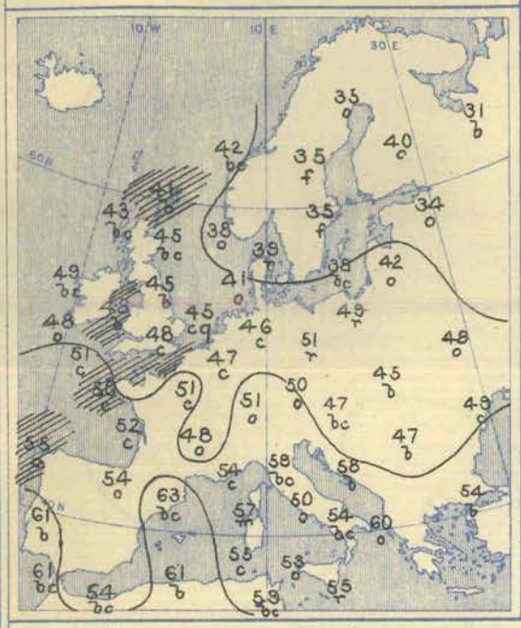
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℑ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

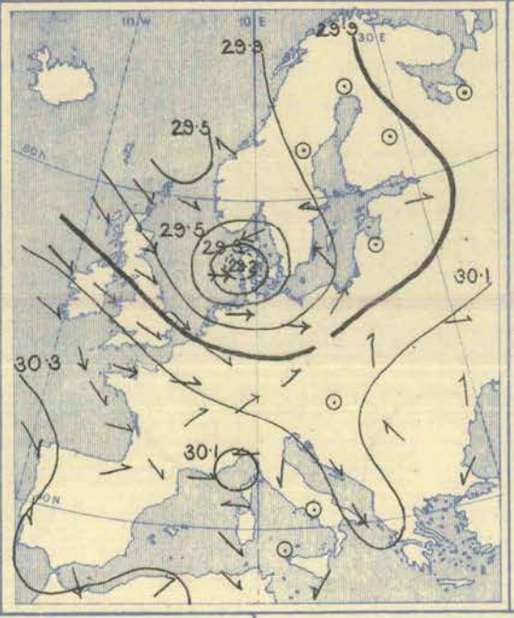
† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 18th April.

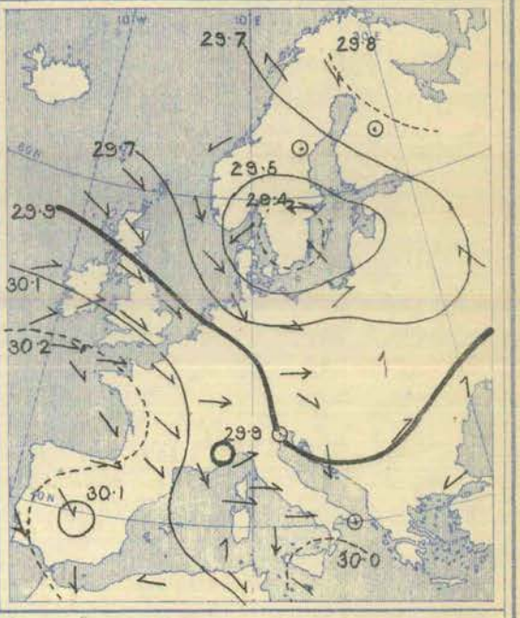
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the United Kingdom generally, and also over Spain, Austria and the northern and central parts of Italy. Cloudy or dull in most other parts of Europe, with fog in Sweden and rain over Denmark, north Germany and the Baltic, as well as at Malta. Showers falling later at many of our own northern stations, and rain over the northern and central parts of the Continent. Lunar halo seen at Hurst Castle.

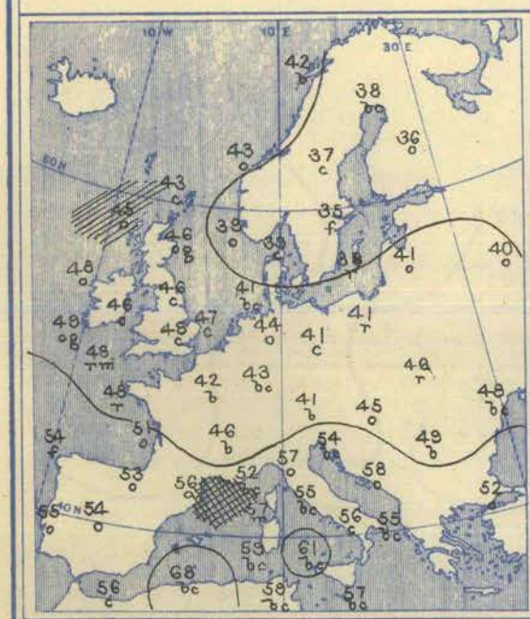
Temperature changed very irregularly. Morning readings highest, 63° at Barcelona, 61° at Lisbon, San Fernando and Algiers, and 60° at Brindisi; above 55° at most of the Mediterannean, Adriatic and Spanish coast stations. Lowest, 31° at Archangel, 34° at St. Petersburg and Helsingfors, and 35° at Haparanda, Hernösand and Stockholm. Rising during day to 55° and upwards in many parts of Great Britain, and to 60° at Leith; exceeding 70° at several stations in the Spanish Peninsula and the extreme south of France, and reaching 83° at Madrid.

Wind moderate to fresh from the Westward or North-Westward over our Islands, the Netherlands and the greater part of France, and from the South-Westward at most of the German stations; Easterly in the south of Scandinavia. Calm over the northern parts of Sweden and Russia, Southerly in the south of Russia; calm in Austria; rather variable, but chiefly North-Westerly in Italy. Subsequently backing to the South-Westward in the west of our Islands; shifting to the North-Westward in Denmark, north Germany and the south of Norway, and blowing with the force of a gale in places.

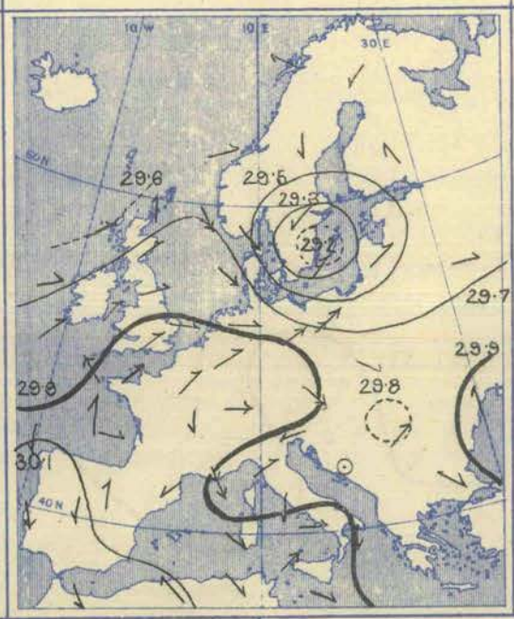
Barometer highest, 30·3 ins. and upwards over Algeria, and also in the north-west of Spain; 30·2 ins. and upwards in the south of Russia. Lowest, 29·2 ins. and less in a well-marked and rather deep depression over Denmark; 30·0 ins. and less in a shallow system near Malta. Danish depression subsequently passing on to the south of Sweden; new disturbances beginning to approach our own western coasts in evening.

Monday, 19th April.

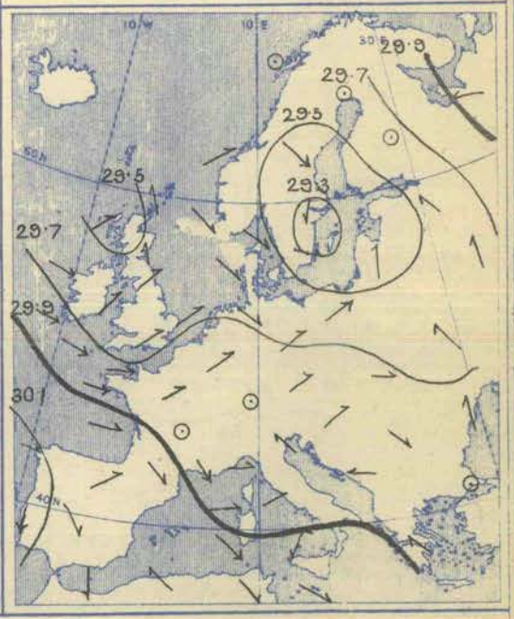
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain at the mouth of the English Channel, as well as over the Baltic, the Gulf of Finland, and the south of Sweden, and at Breslau and Lemberg. Fine over the central and southern parts of France, and also over the southern parts of Germany and Italy. Rain falling later over nearly the whole of western, central, and northern Europe, but amounts mostly slight. Solar halo seen at Dungeness.

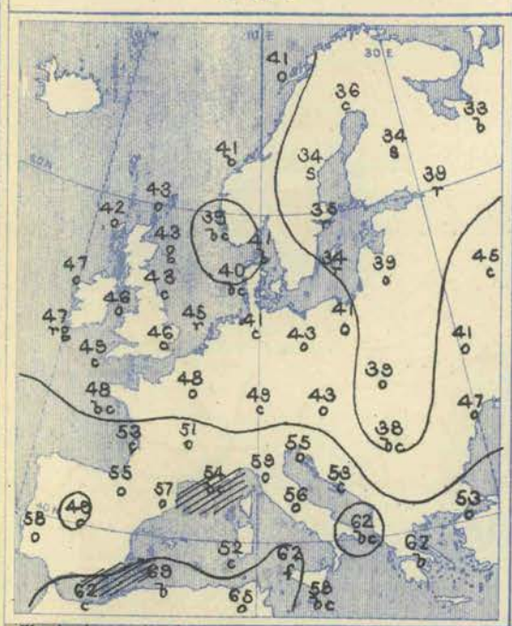
Temperature fallen in France and the western parts of our Islands, but changed irregularly elsewhere. Morning readings highest, 68° at Algiers, 61° at Palermo, and 59° at Cagliari and Sfax; above 50° over southern Europe generally. Lowest, 35° at Stockholm and Karlstad, 36° at Kuopio, Hangö, and Helsingfors, and 37° at Hernösand; below 40° over Sweden and northern Russia generally. Rising later to between 50° and 55° in most parts of the United Kingdom, and to 57° at Loughborough and Cambridge. Exceeding 60° over southern Europe generally, and exceeding 70° over Spain and southern Italy, the highest reading of all being 78° at Madrid.

Wind light to moderate from the South-Westward or Westward over the greater part of our Islands, the Netherlands, and the north of France, and strong to a gale from the same quarters over north Germany; Easterly in Finland; North-Easterly in Sweden; North-Westerly over Denmark and the south of Norway. Variable in Italy and the south of France; Northerly at most of the Spanish stations. Subsequently veering to the North-Westward in the west of our Islands; no important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards over Algeria, and the southern and western parts of the Spanish Peninsula, and also over central France. Lowest, 29·2 ins. and less in a well-marked depression over the northern parts of the Baltic; 29·6 ins. and less in a shallow system off the north-west of Scotland. Baltic depression remaining almost stationary during day; disturbance off north-west of Scotland spreading eastwards, and small secondary system advancing in a similar direction across the south of England.

Tuesday, 20th April.

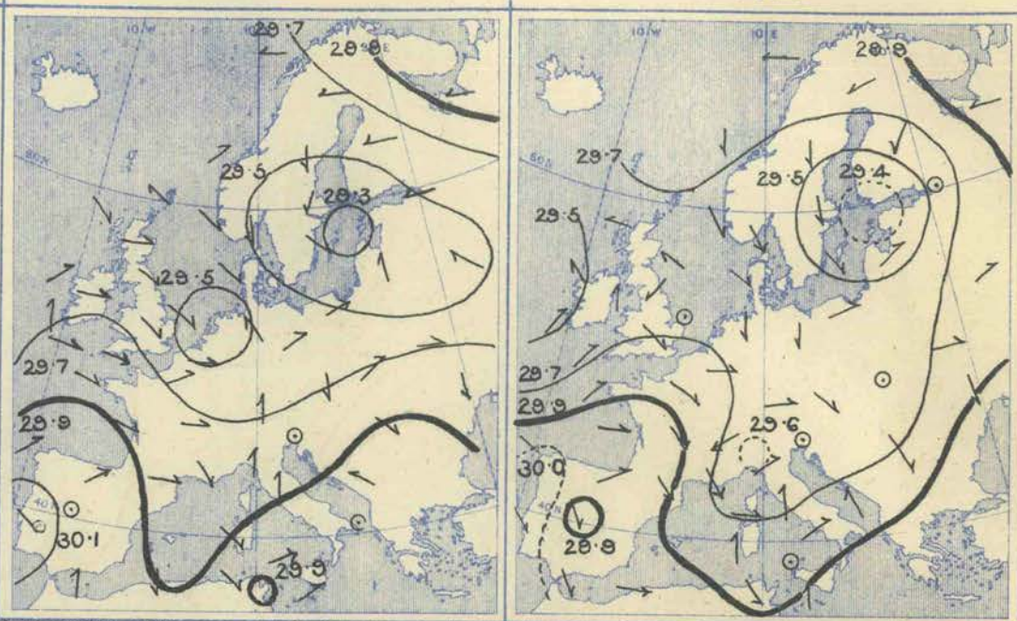
Temperature and Weather. 8 a.m.



Weather in morning fine at many stations in the south of England and the north of France, as well as in Norway and Denmark. Cloudy or dull in nearly all other parts of Europe, with rain over the Netherlands and the east coast of England, as well as in the south of Denmark, and at St. Petersburg and Breslau; snow falling at Kuopio and Hernösand. Rain spreading later from the westward over Ireland, England, and the neighbouring parts of the Continent; amounts large in the west of Ireland. Snow and rain falling also in Sweden and Finland.

Temperature fallen in most of the north-western and northern countries, but risen a little in the south. Morning readings highest, 69° at Algiers, 65° at Tunis, 64° at Sfax, and 62° at Brindisi, Athens, Palermo, and Nemours; above 50° over southern Europe generally. Lowest, 33° at Archangel, and 34° at Kuopio, Helsingfors, Hernösand and Wisby. Rising during day to between 55° and 57° at many of the English stations, exceeding 60° in the south of France, and exceeding 70° over Spain and southern Italy, the highest reading of all being 79° at Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.

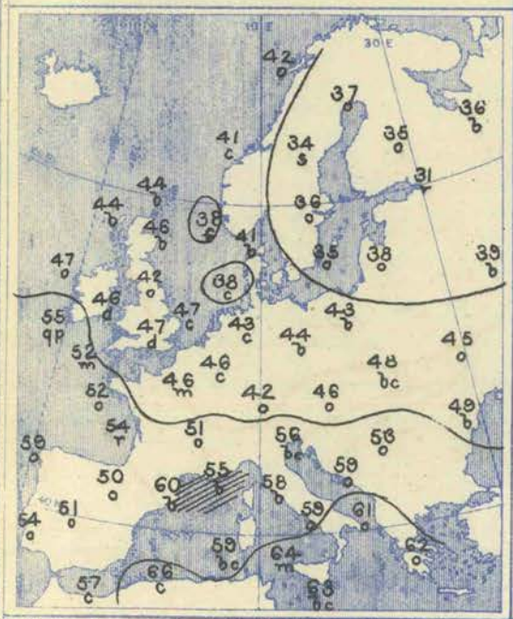


Wind light to moderate from the Westward or North-Westward over the greater part of England, France and Spain; light from the Southward over Germany and northern Italy, and also over Scotland and the west of Ireland. Light from the Eastward over the northern parts of Russia and Scandinavia; North-Westerly over Denmark and the south of Scandinavia; variable over the southern parts of Russia and Italy. Subsequently backing to the South-Westward in the south of England; shifting to the Eastward in Scotland.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over and to the westward of Portugal; 29·9 ins. and upwards in the extreme north of Russia. Lowest, 29·3 ins. and less in a small disturbance over the northern part of the Baltic, 29·5 ins. and less in another system over the Netherlands; 29·6 ins. and less in a disturbance approaching the Irish coasts. Baltic depression subsequently moving eastwards; disturbance over Netherlands partially filling up; new depression off west of Ireland advancing slowly eastwards.

Wednesday, 21st April.

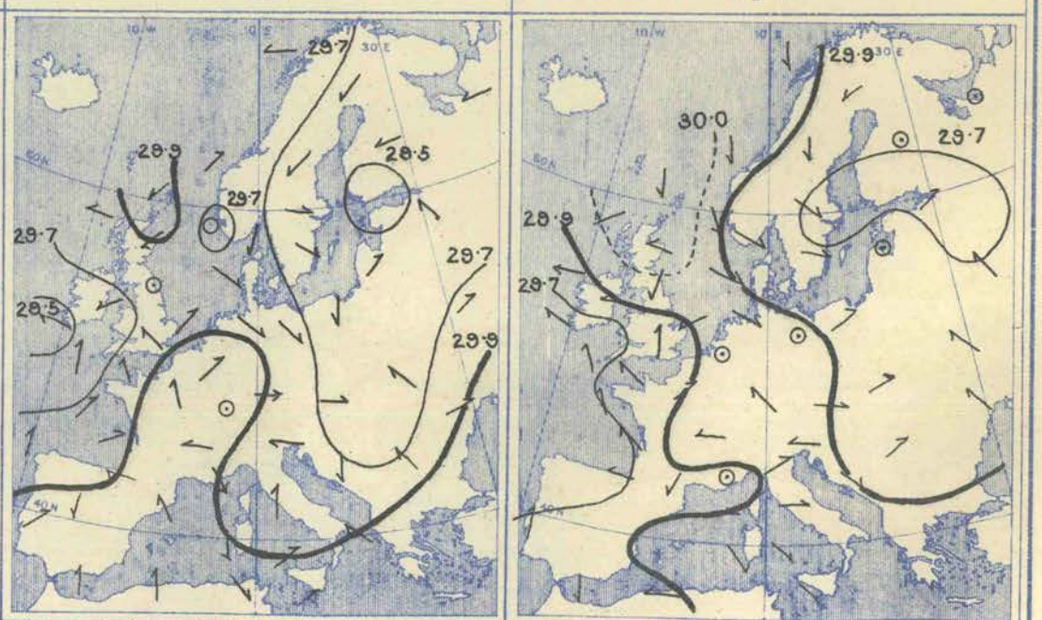
Temperature and Weather. 8 a.m.



Weather in morning fine in Scotland, Denmark, north Germany, and the south of Scandinavia, as well as over northern Italy and the south of France. Cloudy or dull in nearly all other parts of Europe, with rain at several of the English, Irish, and western French stations, and also over the Gulf of Finland, and at Breslau and Cracow. Snow reported at Hernösand. No important change occurring during day.

Temperature risen slightly in our Islands, as well as in Denmark and Germany, but changed very irregularly elsewhere. Morning readings highest, 67° at Tunis, 66° at Algiers and Sfax, and 64° at Palermo; above 55° in most parts of southern Europe. Lowest, 34° at Hernösand, 35° at Kuopio, Helsingfors, and Wisby, and 36° at Archangel and Stockholm; below 40° over Sweden and northern Russia generally. Daily maxima below 50° over the north of our Islands generally, but above 55° at some of the southern stations; thermometer exceeding 60° in the Channel Islands and many parts of France, and exceeding 70° in Spain and Italy, the highest reading of all being 77° at Bilbao and Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.

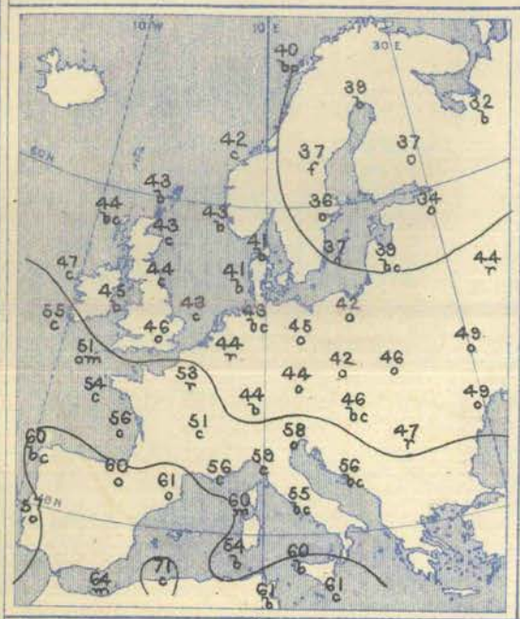


Wind light to moderate from the South-Westward on the Portuguese coasts, and from the Southward over the west and north of France, the Netherlands, and the southern parts of the United Kingdom, but Easterly on our north and north-west coasts. Variable in the west of Norway; Easterly or North-Easterly over the northern parts of Russia and Scandinavia; North-Westerly over Denmark, Germany, the Baltic, and the south of Sweden; Westerly in Austria. Calm or variable over Italy and the south of France, and also in the south of Russia. Subsequently backing to the South-Eastward on our south coasts, and in the north and west of France.

Barometer highest, 29·9 ins. and less in a large area extending from the Mediterranean over Spain, France, and western Germany, as well as in a smaller area lying off the north-east of Scotland. Lowest, 29·5 ins. and less in two depressions—one lying off the south-west of Ireland, and the other over the Gulf of Finland. High-pressure system off Scotch coasts subsequently increasing both in size and height, and spreading southward; Irish depression moving away to the southward.

Thursday, 22nd April.

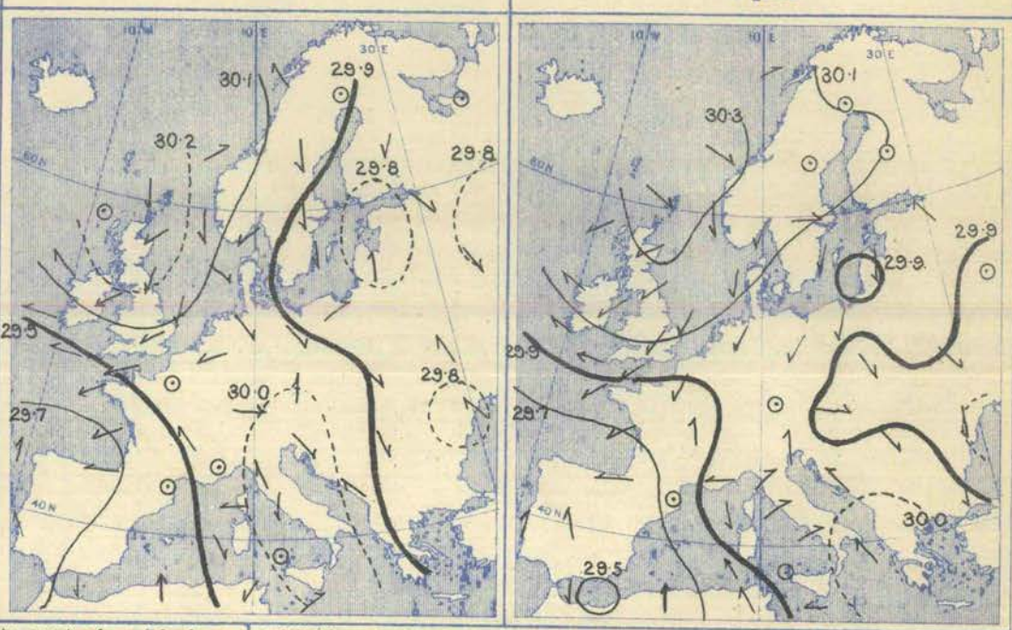
Temperature and Weather. — 8 a.m.



Weather in morning fair or fine in all the more northern and eastern parts of our Islands, as well as in Scandinavia, Denmark, and the greater part of Austria and Italy. Cloudy or dull elsewhere, with rain at Roches Point, Paris, Brussels, Breslau, Moscow, and Hermanstadt. No important change occurring over western Europe during day, but rain falling in many parts of Germany and the east of France.

Temperature fallen in our Islands, and also in Austria and Italy, risen in most other countries. Morning readings highest, 71° at Algiers, 69° at Bilbao, 64° at Oran, and 61° at Barcelona and Malta, above 55° in many parts of southern Europe. Lowest, 32° at Archangel, 33° at Hangö, 34° at St. Petersburg, and 36° at Stockholm; below 40° over Sweden and northern Russia generally, and very little above it over the central parts of Great Britain. Daily maxima over our Islands very little above 50° on any but our extreme western coasts; thermometer exceeding 60° in the west of France, exceeding 70° in the south of that country, and reaching 77° at Limoges, Clermont, Biarritz and Gap.

Barometer and Wind.

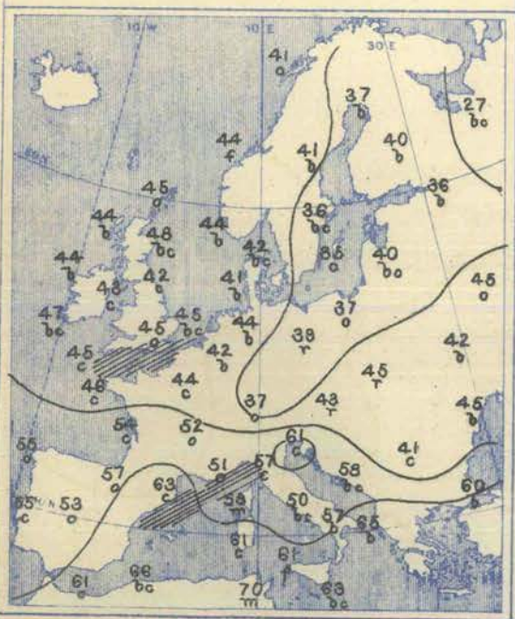


Wind light to fresh from the North-Eastward in most parts of Great Britain, France and the Netherlands, and from the Eastward or South-Eastward in Ireland, as well as over the Spanish Peninsula. Variable in the west of Norway, but Northerly in all other parts of Scandinavia, and North-Westerly in Denmark, Germany and Austria; variable in the north of Russia; South-Easterly in the south of that country. Light and variable over Italy and the south of France. Subsequently increasing in force from the Eastward or North-Eastward over the English Channel; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the northward over all the more northern parts of Great Britain. Lowest, 29·6 ins. and less in a depression off the Portuguese coast; 29·8 ins. and less in three shallow systems—one lying over the Baltic Provinces, another over central Russia, and the third over the south of that country. Portuguese depression subsequently spreading north-eastwards, and barometer beginning to fall over France and our extreme southern coasts.

Friday, 23rd April.

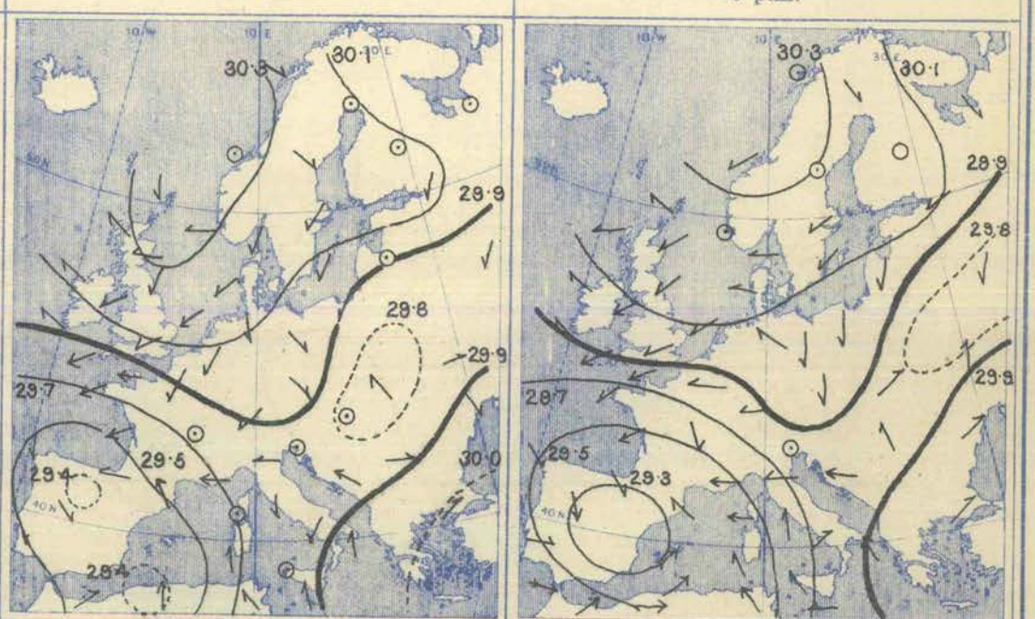
Temperature and Weather. — 8 a.m.



Weather in morning fair or fine over our Islands and the northern parts of the Continent generally, as well as in Italy and the south of Russia. Dull over Spain and the southern parts of France, and also in Germany and Austria, with rain in several places. No important change occurring over Western Europe during day, but heavy rain falling at some of the Spanish stations. Aurora seen at Wick and Pembroke.

Temperature risen a little over the northern parts of the Continent, but fallen elsewhere. Morning readings highest, 70° at Tunis, 68° at Aumale, 66° at Algiers, 65° at Brindisi; above 55° over southern Europe generally. Lowest, 27° at Archangel, 35° at Wisby, and 36° at Stockholm, St. Petersburg and Swinemunde; below 40° in many parts of northern and central Europe, and just touching that point at Nairn. Rising during day to 50° and upwards in most parts of the United Kingdom, and to 55° at Stornoway, Parsonstown and Valencia; exceeding 60° at many of the French stations; exceeding 70° in Italy, and reaching 88° at Palermo.

Barometer and Wind.

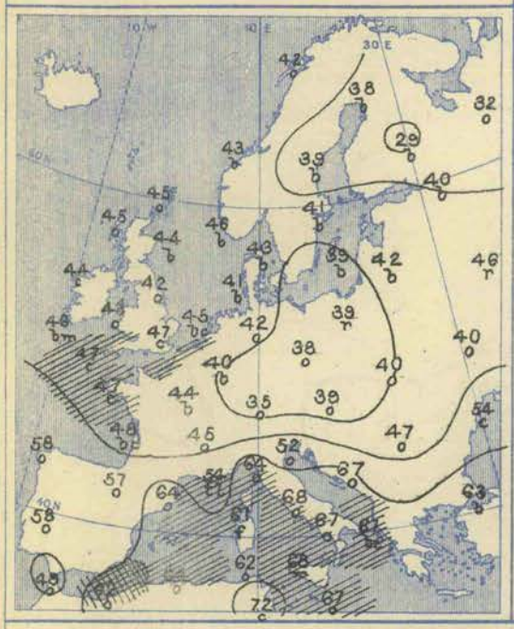


Wind Easterly or North-Easterly over western and northern Europe as a whole, but South Easterly on our own extreme western coasts; strong to a gale in force over the English Channel. Calm or North-Westerly over the extreme northern parts of Russia and Scandinavia. Northerly or North-Westerly in Germany, and also over Spain; Southerly in the south of Italy. Shifting later to the Westward in the south-west of France; no important change occurring elsewhere.

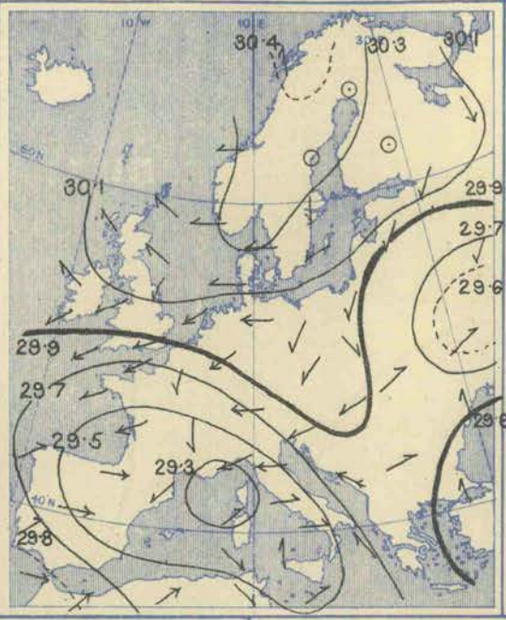
Barometer highest, 30·3 ins. and upwards in the east of Scotland and the west of Norway; 30·1 ins. and upwards in an anticyclone covering nearly the whole of northern Europe, the North Sea, and the more northern parts of the United Kingdom. Lowest, 29·4 ins. and less in two depressions—one lying over the north-east of Spain, and the other off the Algerian coasts; 29·8 ins. and less in a shallow area over Austria. Depression off Algerian coast subsequently moving northwards, and increasing in depth; barometer falling in most parts of western Europe, but rising again in Spain.

Saturday, 17th April.

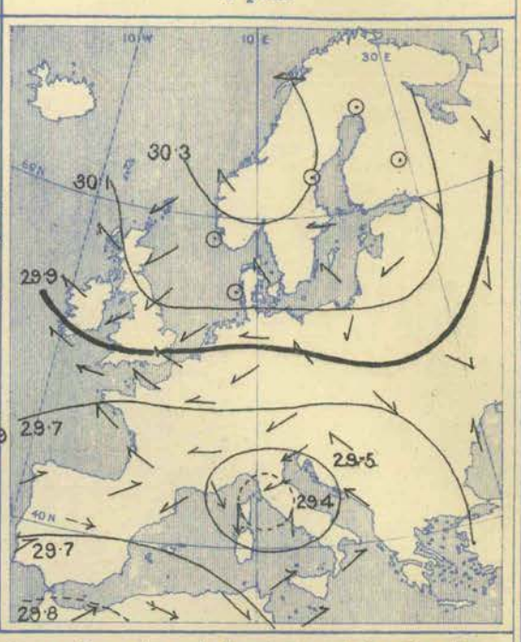
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western and northern Europe generally, as well as in the south of Russia. Dull in most other parts of the Continent, with rain at Moscow, Neufahrwasser, Turin, Perpignan and Oporto, and a thunderstorm at Toulon. A little rain falling later over North Germany, the Netherlands, and the east coast of England, and larger quantities at some of the Italian stations.

Temperature risen considerably over Italy and the south of France; changed irregularly elsewhere. Morning readings highest, 72° at Sfax, 68° at Rome and Palermo, and 67° at Lesina, Brindisi, Naples and Malta; above 60° at many of the Mediterranean and Adriatic stations. Lowest (1), 29° at Kuopio, 32° at Archangel, and 38° at Uleaborg; (2) 35° at Prague and Munich, and 37° at Breslau; below 40° in many parts of northern and central Europe. Daily maxima very little above 50° at any of the English stations, but thermometer reaching 58° at Valencia (Ireland), and 60° at Nairn. Exceeding 60° over Spain and the south of France; exceeding 70° over the southern parts of Italy, and reaching 81° at Palermo.

Wind Easterly or North-Easterly over the greater part of western, central, and northern Europe, and strong in force at the English Channel stations; South-Easterly in the extreme north and north-west of our Islands, calm over the northern part of Sweden. Southerly in the south of Russia; varying between West and South over the Spanish Peninsula and the southern parts of Italy. No important change occurring over western Europe during day.

Barometer highest, 30·4 ins. and upwards in Finmark; 30·1 ins. and upwards in an anticyclone covering the whole of northern Europe, including the North Sea and the northern parts of Great Britain. Lowest, 29·3 ins. and less in a depression lying off the South of France; 29·6 ins. and less in another disturbance over the south of Russia. No decided change occurring over western Europe later, but depression over the south of Russia filling up.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇛ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week shallow barometrical depressions continued to arrive from the Atlantic and to pass eastwards across our Islands, the weather being in a very changeable, showery condition over north-western Europe generally, with light or moderate breezes, varying in direction between South-West and North-West.

On the 21st, however, an anticyclone began to form over the north of our Islands, and a depression which appeared at the same time off the south of Ireland, instead of advancing eastwards, passed away to the southward. The high pressure system now increased steadily both in size and height, and ultimately embraced all the more northern parts of our Islands and the Continent, the wind in the meantime shifting to the Eastward or North-Eastward and the weather becoming fair and dry. After the 22nd, when depressions began to spread northwards from southern Europe, the wind increased to a moderate or fresh gale over the English Channel, while rain fell in many parts of France, Spain, and Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 92.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.
EDINBURGH	35·3	+ 6·8	35	+ 6	EASTBOURNE	49·2	+ 8·7	50	+ 8
OSWALDKIRK (Yorkshire)	32·4	0·0	32	0	VENTNOR	57·5	?	59	?
WORKSOP	37·8	+ 7·8	38	+ 7	SOUTHPORT	52·1	?	52	?
THURCASTON (Leicestershire)					COLWYN BAY	40·3	?	41	?
MARGATE	47·3	+11·5	48	+11	NEWQUAY	36·3	− 5·4	37	− 6
WESTBOURNE (Sussex)	52·4*	+ 9·8	53*	+ 8	TORQUAY	41·3*	− 0·9	42*	− *
BRIGHTON	55·2	+14·0	56	+13	GUERNSEY	41·2*	− 4·4	42*	− 6

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIV. No. 17.] *Third Series.* WEEK ENDING SATURDAY MAY 1ST, 1897. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 98.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
								For the Week				From January 3rd, 1897.			
		Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima	Averages of Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	59	28	50·8	37·1	43·6	2 below	32	+ 3	14	- 1	196	+ 7	572	- 13
	1. SCOTLAND, EAST	61	26	52·8	36·1	44·0	2 below	39	+ 3	17	+ 2	234	- 15	619	0
	2. ENGLAND, N.E.	65	24	54·0	41·1	47·2	1 above	40	+ 7	3	- 7	277	+ 35	453	- 77
	3. ENGLAND, EAST	68	30	50·1	40·7	49·5	2 above	58	+11	4	- 7	962	+ 47	474	-121
	4. MIDLAND COUNTIES	69	31	50·1	40·9	49·6	2 above	58	+10	3	- 9	367	+ 25	479	-118
	5. ENGLAND, SOUTH	69	36	58·9	44·1	51·1	2 above	64	+13	0	- 5	410	+ 53	290	-180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	60	32	53·8	39·8	46·4	1 below	40	+ 1	6	- 3	250	- 17	422	- 21
	7. ENGLAND, N.W.	61	32	55·3	41·4	48·0	0 (average)	45	+ 4	2	- 5	296	+ 25	362	- 81
	8. ENGLAND, S.W.	70	36	57·1	44·6	50·6	2 above	60	+13	0	- 5	423	+ 44	219	-135
	9. IRELAND, NORTH	65	31	52·8	38·8	45·4	2 below	37	- 6	9	+ 2	303	- 33	390	+ 8
	10. IRELAND, SOUTH	60	35	54·7	42·6	48·4	1 below	45	- 3	0	- 5	462	+ 21	242	- 49
	—CHANNEL ISLANDS	65	44	56·5	46·8	51·4	1 above	66	+14	0	0	606	+137	68	- 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 98.)	Rainfall. For the Week.			Rainfall. From January 3rd, 1897.				Bright Sunshine. For the Week.				Bright Sunshine. From January 3rd, 1897.			
		Number of Rainy Days	Total Fall.	More or less than the mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	6	0 (average)	79	- 1	13·7	- 2·4	30	- 4	28	- 6	311	+ 25	25	+ 2
	1. SCOTLAND, EAST	3	2	2 less	71	+ 8	8·5	- 0·7	31	- 3	30	- 4	317	- 17	26	- 1
	2. ENGLAND, N.E.	4	4	0 (average)	73	+12	7·8	+ 0·7	38	+ 5	37	+ 5	338	+ 7	27	+ 1
	3 ENGLAND, EAST	3	5	2 more	71	+11	8·7	+ 1·9	41	+ 3	40	+ 1	359	- 20	28	- 2
	4. MIDLAND COUNTIES	3	3	1 less	70	+13	10·1	+ 2·3	40	+ 4	39	+ 3	344	- 5	27	0
	5. ENGLAND, SOUTH	2	3	1 less	66	+10	11·0	+ 2·4	47	+ 7	47	+ 7	376	- 18	29	- 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	5	1 more	74	+ 6	13·8	- 1·7	45	+ 5	44	+ 3	339	- 4	27	0
	7. ENGLAND, N.W.	3	3	0 (average)	77	+15	10·7	+ 1·3	43	+ 7	42	+ 5	334	- 4	26	- 1
	8. ENGLAND, S.W.	4	6	1 more	84	+21	17·0	+ 5·3	41	- 3	41	- 3	361	- 68	28	- 6
	9. IRELAND, NORTH	4	5	1 more	85	+13	12·8	+ 1·8	36	+ 1	35	0	333	+ 2	27	+ 1
	10. IRELAND, SOUTH	4	3	3 less	81	+15	15·6	+ 3·2	29	-11	28	-12	361	- 33	29	- 2
	—CHANNEL ISLANDS	4	3	1 less	90	+21	14·3	+ 4·0	39	- 0	39	0	373	- 92	30	- 7

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was of two distinct types. During the earlier half of the week it was fine and dry in the north, and somewhat unsettled, with occasional rain over the southern districts, and with thunderstorms on Tuesday or Wednesday. Later on the conditions improved very considerably in the south, but became unsettled and showery in the north.

Temperature continued below the mean in Ireland and Scotland, but was rather above the normal in nearly all the English districts. Its range was considerable. The highest of the maxima, which were recorded on April 27th over England and Ireland, and on May 1st in Scotland, ranged from 70° in England S.W. and 69° in England S. and the Midland counties to 60° in Scotland W. and Ireland S., and to 59° in Scotland N. The lowest of the minima were registered, as a rule, during the earlier part of the period. They ranged from 26° in Scotland E., 28° in Scotland N., and 30° in England E. to 36° in England S. and S.W., and to 44° in the Channel Islands. Frost occurred on the grass on some occasions in most parts of the Kingdom.

Rainfall did not differ very materially from the mean, being rather deficient in some districts and a little in excess in others—more particularly in England E.—while in Scotland N. and England N.E. and N.W. the fall just equalled the normal.

Bright Sunshine exceeded the mean in almost all the English districts, and also in Scotland W., in England S.W., and the other parts of the Kingdom, the aggregate values were less than, or just equal to, the mean. The percentage of the possible duration ranged from 47 in England S., and 44 in Scotland W., to 28 in Scotland N. and Ireland S.

Barometer and Wind.—During the earlier part of the week the distribution of pressure continued anticyclonic over all the more northern parts of the Kingdom, while shallow disturbances made their appearance over France and our southern coasts. These conditions, with their accompanying Easterly winds, continued to prevail until Wednesday, but from that date depressions began to appear in the north, the barometer gradually became highest in the south, and moderate South-Westerly to Westerly winds set in in all parts of the Kingdom.

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II.—DATA from which the SUMMARY on page 97 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		*	*	*	*	*	*	*	*		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	49	36	47·4	38·7	42·8	− 0·3	19	9	5	0·53	+0·13	*	*	*	*
	Stornoway	57	33	51·0	38·6	44·5	− 0·3	32	9	4	0·29	−0·23	34·8	− 3·8	33	− 5
	Wick	52	32	50·0	37·6	43·5	− 1·3	29	12	6	0·41	0·00	*	*	*	*
	Lairg Ⓢ	55	28	51·8	33·6	42·3	− 2·4	37	24	4	0·22	−0·28	*	*	*	*
	Glencarron Ⓢ	58	32	50·3	35·4	42·5	− 2·6	31	18	4	1·15	+0·25	*	*	*	*
	Fort Augustus Ⓢ	56	32	52·1	37·4	44·4	− 2·7	36	13	4	0·38	−0·12	28·4	+ 1·0	27	0
	Fort William Ⓢ	59	35	52·9	38·7	45·5	− 2·0	38	9	4	0·98	+0·18	26·2	− 9·1	25	−10
1. SCOTLAND, E.	Nairn	57	26	53·3	33·3	42·8	− 3·6	42	24	4	0·14	−0·16	*	*	*	*
	Aberdeen	54	36	49·9	39·0	44·2	− 1·1	28	8	4	0·62	+0·19	31·2	− 6·4	30	− 6
	Braemar Ⓢ	53	27	49·8	31·2	40·1	− 2·6	22	40	1	0·18	−0·35	24·2†	− 9·0†	23†	−10†
	Ochtertyre Ⓢ	60	31	56·4	36·1	45·8	− 0·8	51	17	3	0·05	−0·41	*	*	*	*
	Leith	58	34	54·1	39·1	46·2	− 0·7	42	8	4	0·18	−0·12	*	*	*	*
	Marchmont Ⓢ	61	35	53·1	37·6	45·0	0·0	39	12	3	0·13	−0·35	26·3	+ 1·3	35	0
2. ENGLAND, N.E.	Alnwick Castle	58	37	52·0	40·1	45·8	+ 1·2	35	5	4	0·34	−0·07	*	*	*	*
	Durham	65	36	56·8	39·6	47·8	+ 2·2	51	7	4	0·44	+0·06	44·5	+13·9	43	+13
	Shields	61	37	53·4	41·3	47·1	+ 1·8	39	2	5	0·28	−0·07	*	*	*	*
	Scarborough Ⓜ	63	38	52·3	41·2	46·7	+ 0·5	36	2	4	0·51	+0·11	*	*	*	*
	York	65	34	56·6	40·6	48·2	+ 0·5	49	4	5	0·36	+0·03	35·9	+ 1·7	35	+ 1
	Spurn Head	64	41	52·4	43·6	47·8	+ 1·5	41	0	4	0·19	−0·09	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	65	35	58·9	40·2	49·1	+ 1·4	57	5	4	0·60	+0·25	40·1	+ 1·6	39	0
	Yarmouth	63	40	54·4	43·3	48·6	+ 2·0	46	0	3	0·76	+0·43	*	*	*	*
	Geldeston	68	30	59·8	39·9	49·4	+ 2·0	61	6	3	0·59	+0·29	41·6	+ 1·4	41	0
	Cambridge	68	32	62·1	39·9	50·5	+ 1·4	68	6	2	0·21	−0·14	40·1	+ 1·3	39	+ 1
	Rothamsted	67	37	60·2	40·4	49·8	+ 2·1	61	4	3	0·46	−0·02	42·4	+ 6·4	42	+ 6
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	67	31	59·0	37·7	47·8	− 0·9	59	12	4	0·47	+0·15	*	*	*	*
	Loughborough	67	37	60·3	41·1	50·2	+ 1·3	61	3	2	0·17	−0·19	*	*	*	*
	Stamford (Duddington)	66	36	60·1	41·0	50·1	+ 1·4	61	3	3	0·17	−0·21	*	*	*	*
	Cheadle Ⓜ	61	38	55·6	40·6	47·7	+ 1·0	46	4	3	0·71	+0·30	*	*	*	*
	Shirley (near Solihull)	63	37	58·2	40·0	48·7	+ 0·7	55	6	3	0·34	?	*	*	*	*
	Churchstoke Ⓜ	63	37	57·7	40·4	48·6	+ 2·4	53	4	4	0·28	−0·12	42·6	+ 6·5	41	+ 5
	Hereford Ⓜ	64	33	60·7	42·6	51·2	+ 3·1	64	0	3	0·04	−0·33	*	*	*	*
	Cirencester	67	40	59·4	42·3	50·4	+ 3·1	59	0	1	0·06	−0·34	41·7	+ 3·1	41	+ 2
	Oxford	69	37	60·9	42·7	51·4	+ 2·4	66	0	2	0·18	−0·17	40·1	+ 2·8	39	+ 1
5. ENGLAND, S.	London	66	37	62·3	41·6	51·5	+ 1·5	68	1	3	0·92	+0·54	40·6†	+ 7·7†	40†	+ 8†
	North Foreland	65	41	57·6	44·9	51·0	+ 4·2	63	0	3	0·45	?	*	*	*	*
	Dungeness	60	38	56·1	44·7	50·0	+ 1·4	56	0	2	0·06	−0·24	*	*	*	*
	Hastings (St. Leonards)	62	40	56·9	44·7	50·5	+ 1·4	60	0	3	0·20	−0·13	52·9	+ 9·1	52	+ 8
	Southampton	69	38	62·8	44·1	53·0	+ 2·7	77	0	1	0·15	−0·25	45·6	+ 3·7	45	+ 2
	Hurst Castle	62	39	58·0	45·7	51·6	+ 2·3	67	0	2	0·13	−0·18	*	*	*	*
	Shaftesbury Ⓜ	65	36	58·8	42·8	50·4	+ 2·7	59	0	2	0·46	−0·14	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	59	36	53·4	38·3	45·5	− 2·3	40	10	4	1·11	+0·34	*	*	*	*
	Glasgow	56	37	51·6	39·7	45·4	− 1·3	33	6	4	0·21	−0·16	33·2	+ 1·3	32	0
	Ardrossan	57	37	53·0	40·6	46·5	− 0·9	37	4	4	0·22	−0·18	*	*	*	*
	Glenlee Ⓢ	60	32	56·3	38·1	46·8	+ 0·3	50	11	4	0·53	+0·02	*	*	*	*
	Gilcrux (Cumberland)	59	32	53·9	40·2	46·7	+ 0·7	40	5	6	0·72	?	49·7	?	48	?
	Douglas Isle of Man)	60	39	54·3	41·6	47·7	+ 0·4	42	1	3	0·45	+0·03	53·4	+ 9·1	52	+ 7
7. ENGLAND, N.W.	Stonyhurst	59	35	54·6	39·5	46·7	− 0·6	43	7	4	0·62	+0·15	39·2	+ 3·2	38	+ 2
	Blackpool Ⓜ	61	32	55·9	38·6	46·8	− 1·0	48	10	3	0·42	+0·12	46·0	+10·5	45	+ 8
	Manchester (Prestwich)	61	35	55·6	40·0	47·4	+ 0·3	46	6	2	0·16	−0·23	31·7	?	31	?
	Liverpool Obsy. (Bidston)	61	38	56·3	42·6	49·1	+ 2·3	50	0	2	0·14	−0·15	*	*	*	*
	Llandudno Ⓜ	60	43	54·9	44·0	49·2	+ 0·2	50	0	3	0·35	0·00	*	*	*	*
	Holyhead	57	41	54·1	43·4	48·5	+ 0·1	46	0	4	0·26	−0·10	*	*	*	*
8. ENGLAND, S.W.	Llandovery	70	36	61·4	41·4	50·9	+ 3·0	65	2	4	0·31	−0·20	*	*	*	*
	Pembroke	56	42	52·4	45·3	48·7	+ 0·9	47	0	4	0·31	−0·04	44·0	− 1·0	43	− 2
	Clifton	66	40	59·3	45·7	52·2	+ 3·8	71	0	3	0·43	−0·01	*	*	*	*
	Arlington (N. Devon)	65	36	56·9	43·1	49·7	+ 2·0	54	0	5	0·96	+0·45	*	*	*	*
	Cullompton Ⓜ	68	36	61·4	44·5	52·5	+ 3·1	74	0	3	0·63	+0·03	41·4	+ 3·4	41	+ 2
	Falmouth	60	42	54·8	46·5	50·5	+ 1·1	60	0	5	0·54	−0·14	34·0	−10·9	34	−12
	Plymouth	60	40	56·3	45·7	50·8	+ 0·7	62	0	5	0·61	+0·15	43·1	0·0	43	0
	Prawle Point	61	38	54·4	44·4	49·2	+ 1·1	50	0	4	0·72	+0·36	*	*	*	*
9. IRELAND, N.	Malin Head	50	39	48·6	40·7	44·5	− 3·1	23	4	4	0·42	?	*	*	*	*
	Londonderry	65	37	54·3	38·5	46·0	− 2·8	43	10	5	0·48	+0·10	*	*	*	*
	Edenfel (Omagh)	60	32	52·4	36·9	44·3	− 2·4	38	14	4	0·58	+0·15	*	*	*	*
	Belmullet	57	36	52·4	40·1	46·0	− 2·8	36	5	4	0·54	+0·07	*	*	*	*
	Markree Castle	58	31	52·4	36·8	44·3	− 2·9	38	15	5	0·45	−0·02	36·5	− 0·3	35	− 2
	Armagh	57	34	53·9	37·4	45·3	− 1·9	42	13	4	0·45	−0·05	36·2	+ 1·2	35	0
	Donaghadee	56	40	53·0	41·3	46·9	− 0·1	37	2	3	0·37	−0·01	*	*	*	*
	Edgeworthstown	58	36	53·5	38·8	45·8	− 2·1	40	9	5	0·77	+0·25	*	*	*	*
10. IRELAND, S.	Dublin	60	39	55·6	44·0	49·5	+ 0·4	53	0	4	0·15	−0·29	35·2	− 5·8	34	− 7
	Parsonstown	60	35	54·0	40·6	47·0	− 1·3	41	4	5	0·34	−0·11	20·5	−17·3	20	−18
	Kilkenny	60	35	55·3	41·6	48·1	− 0·6	44	1	4	0·26	−0·22	*	*	*	*
	Roche's Point	57	40	53·9	44·1	48·8	− 1·0	48	0	4	0·09	−0·63	*	*	*	*
	Valencia	60	38	54·7	42·6	48·4	− 1·4	45	0	4	0·44	−0·44	32·0	− 9·8	31	−11
	Killarney											?	*	*	*	*
	Foynes	?	38	?	43·1	?	?	?	?	4	0·34	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	56	44	53·0	46·4	49·5	− 0·2	53	0	5	0·49	+0·09	21·1	?	21	?
	Jersey	65	45	60·0	47·1	53·2	+ 2·3	78	0	2	0·17	−0·20	50·0	+ 2·1	50	+ 1

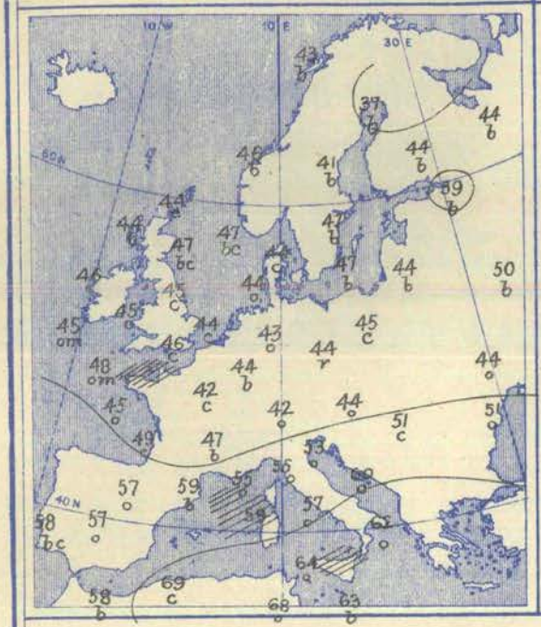
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

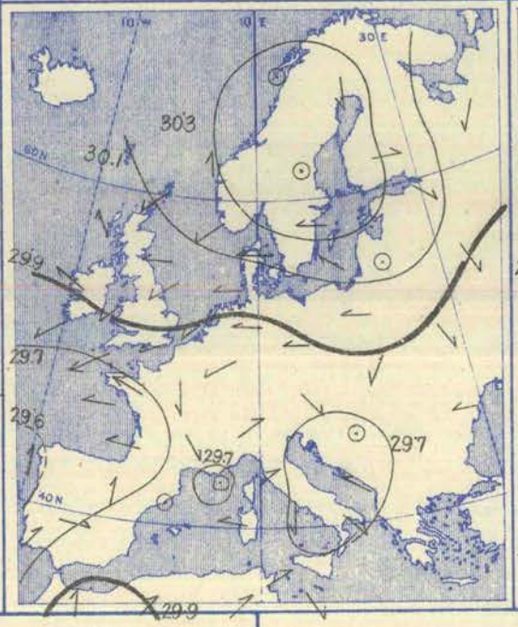
† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 25th April.

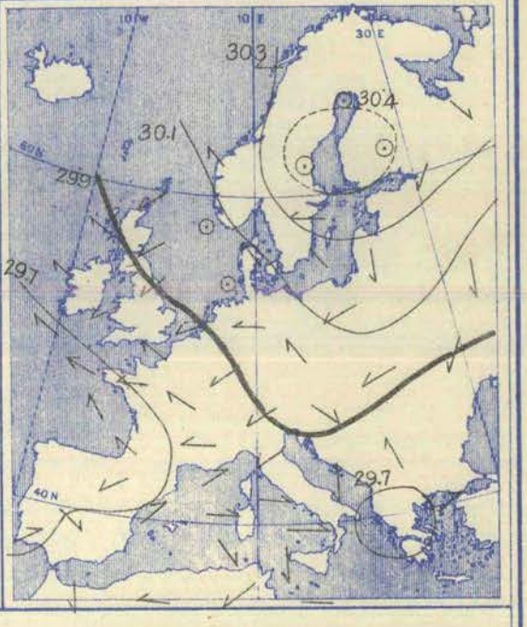
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over northern Europe and several parts of the British Islands and the Netherlands; cloudy and somewhat unsettled in the west and south-west, as well as over the southern and central countries. Rain falling later over Denmark, Scotland, and some of the south-western parts of our Islands, and the north of France; heavy falls, accompanied by thunder and hail, at Biarritz, Clermont, and Gap, and a considerable amount at Hermanstadt.

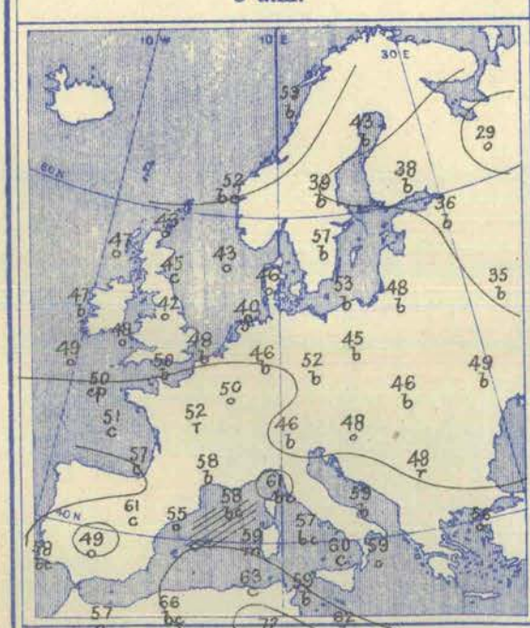
Temperature in morning highest, 69° at Algiers, and exceeding 60° on the southern side of the Mediterranean generally; 62° at Brindisi, 60° at Lesina. Low for the time of year over southern, western, and central Europe as a whole. Lowest, 39° at St. Petersburg, 41° at Haparanda and Faerder, 42° at Malin Head, at Loughborough (Leicestershire), and at Paris. Not touching 60° in any part of our Islands during the day, but rising to 64° at Paris, 69° at Lyons, 71° at Nice, 77° at Cagliari, and 79° at Algiers.

Wind Easterly, light to moderate in force, over all the northern countries and on the west coast of France; very variable and light over the greater part of southern and south-eastern Europe, but Southerly over Spain and north Africa. The Southerly current in the far south veering to South-West later, and tending to spread Northwards in places.

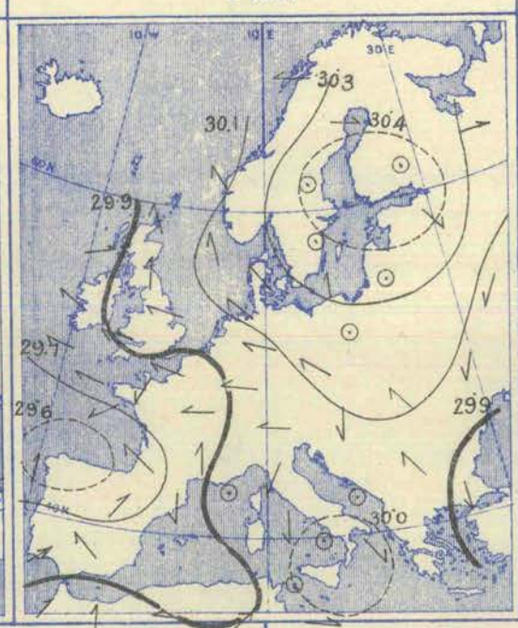
Barometer highest, 30·3 ins. and more to 30·0 ins. in a large anticyclone covering northern Europe, and exceeding 30·0 ins. in some parts of the north of Africa. Lowest, below 29·6 ins off the Portuguese coast, and below 29·7 ins. in shallow depressions over the northern parts of the Mediterranean, the Adriatic, Bosnia, Servia, and Sclavonia. The Atlantic depression spreading in over France and the British Islands later.

Monday, 26th April.

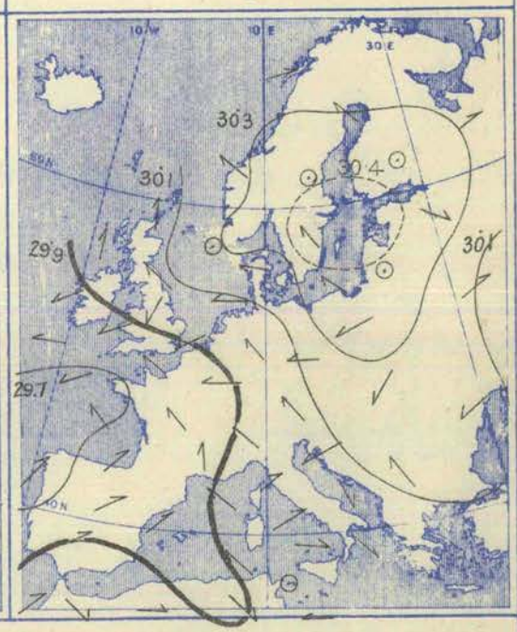
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning very fine and bright over Russia, Scandinavia, Germany, and Hungary, and fair over the British Islands and the Mediterranean; dull and unsettled over Spain, several parts of France, and the extreme south-west of our Islands, with rain in several places. Heavy rain falling later in several parts of France, at Turin, and Nemours, as well as at Prawle Point; slighter falls at Hurst Castle, Yarmouth, and several of our north-eastern stations, as well as in the south of Ireland; remaining fine and bright in the north.

Temperature rising generally over western and central Europe. Morning readings highest, 72° to 70° over Tunis, 66° at Algiers, 63° at Cagliari, 61° at Biarritz, 58° at Lyons, 55° at Jersey, 52° at Dungeness, 51° at Stockholm. Lowest, 29° at Archangel, 35° at Moscow, 42° at Shields, 43° at Nairn and Sumburgh Head, 44° at Leith. Rising later to 63° at Loughborough, to between 65° and 67° over our south Midland counties, to 68° at Berlin and Paris, 72° at Nice, 75° at Biarritz, 77° at Charlesville, and 91° at Tunis.

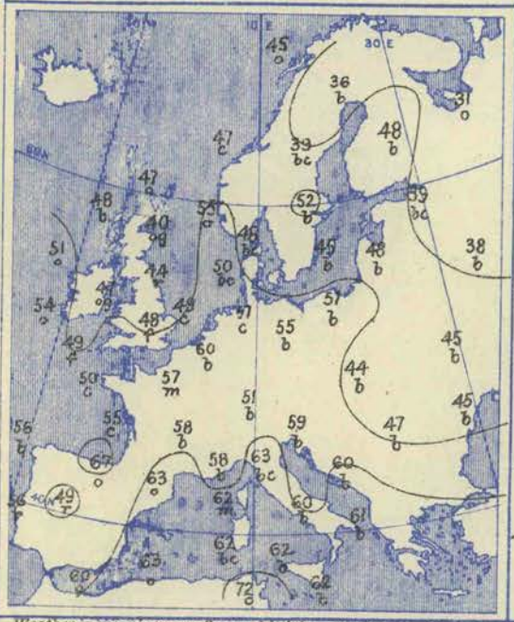
Wind light to moderate very generally; very variable in many places; Southerly to South-Westerly in the extreme south-west, and variable from the Eastward and South-Eastward over the northern, north-western, and central countries. A Southerly to South-Westerly current of little strength spreading northwards over France later, but very little change occurring over the British Islands.

Barometer highest, 30·4 ins. and more to 30·0 ins. over northern and central Europe, and exceeding 30·0 ins. over the south of Italy. Exceeding 29·9 ins. over Algeria and the south of Spain. Lowest, 29·6 ins. and less in a depression over the Bay of Biscay and north of Spain. Gradients slight. The depression in the west moving north-eastwards later towards the North Sea, but tending to fill up.

Tuesday, 27th April.

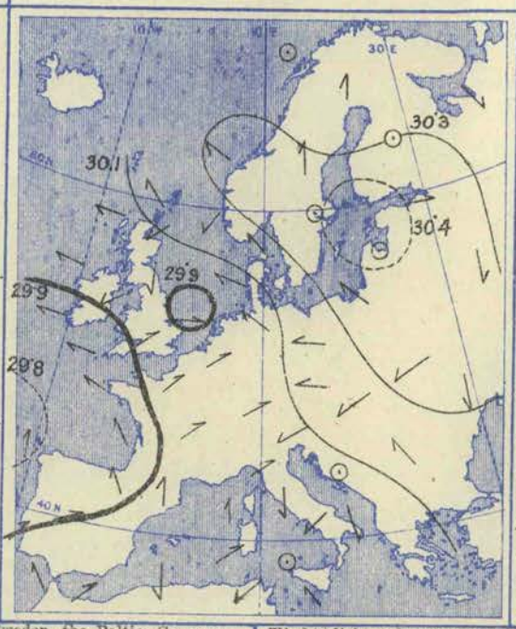
Temperature and Weather.

8 a.m.

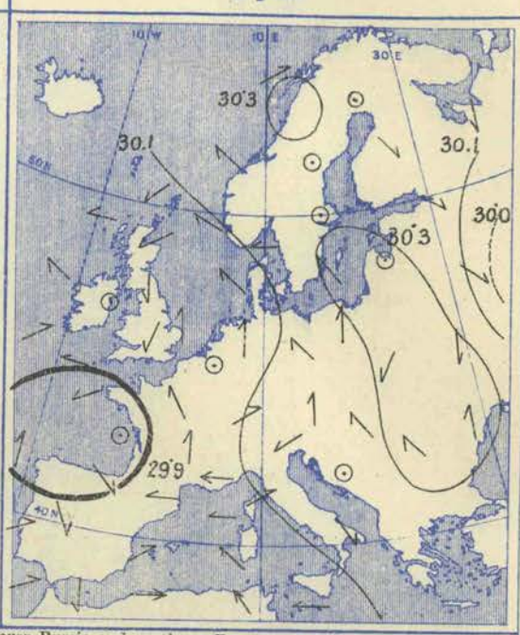


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine and bright over Russia, Finland, Sweden, the Baltic, Germany, and south-eastern Europe, as well as over many parts of France and Scotland; very changeable and unsettled over Ireland, England, the Bay of Biscay, and Spain, with rain at several stations, fog or mist at others. Heavy rain in London later, and heavy hail locally in some of the southern suburbs; thunderstorms over France, and the south-east of England, and the Channel Islands; slight rain at several of the Irish and Scotch stations, and very heavy rain at Nantes and Bordeaux.

Temperature changing irregularly, but inclined to rise over Europe generally. Morning readings highest, 68° at Algiers, Barcelona, and Leghorn, and above 60° at most Mediterranean stations; 67° at Bilbao. Exceeding 50° at many of our southern stations and in north Germany. Lowest, 31° at Archangel, 36° at Haparanda, 38° at Moscow, 40° at Aberdeen, 42° at Wick, 43° at Leith. Rising later to between 60° and 68° over many parts of Great Britain, to 72° at Berlin, 74° at Paris, 80° at Lyons and Rome, and 82° at Tunis.

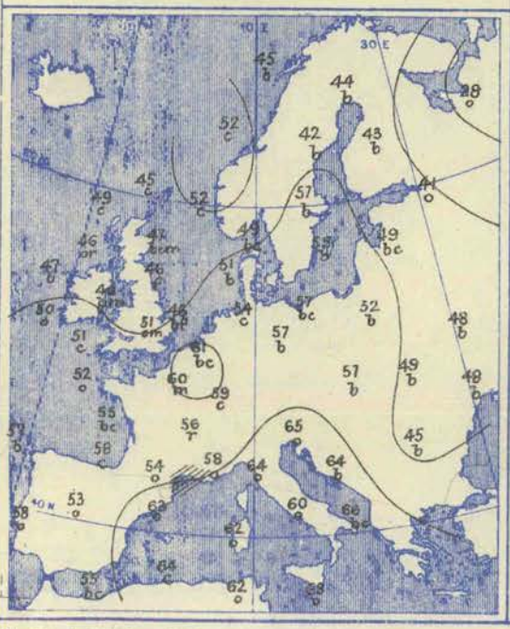
Wind (1) light and anticyclonic over Russia and northern Europe generally; moderate from between (2) East and North over the northern and western parts of the British Islands, but Southerly and South-Westerly over the Spanish Peninsula; (3) very light and variable over England, France, and the Mediterranean. Becoming still more variable over the British Islands later.

Barometer highest, (1) 30·4 ins. and more to 30·1 ins. over Russia, eastern Germany, Scandinavia, and the north-east of Scotland, and exceeding 30·0 ins. over Italy; (2) 30·0 ins. and more over Morocco and the south of Spain. Lowest, below 29·8 ins. in a depression off the north-west of Spain, and below 29·9 ins. in a smaller system off the east coast of England. Former system moving northwards and the latter one eastwards during the day. Further shallow disturbances appearing over England.

Wednesday, 28th April.

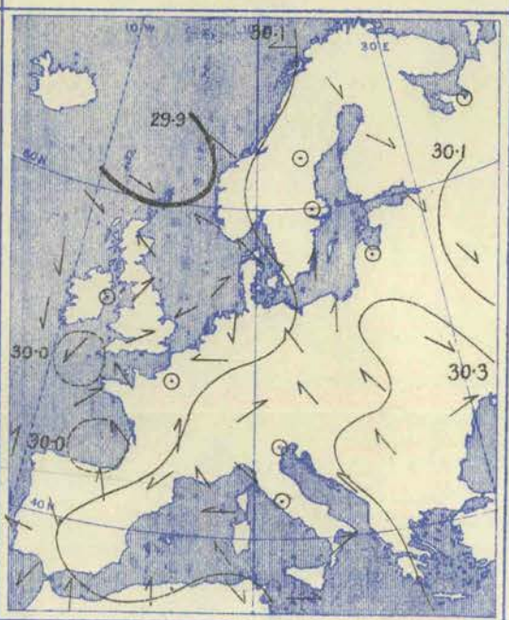
Temperature and Weather.

8 a.m.

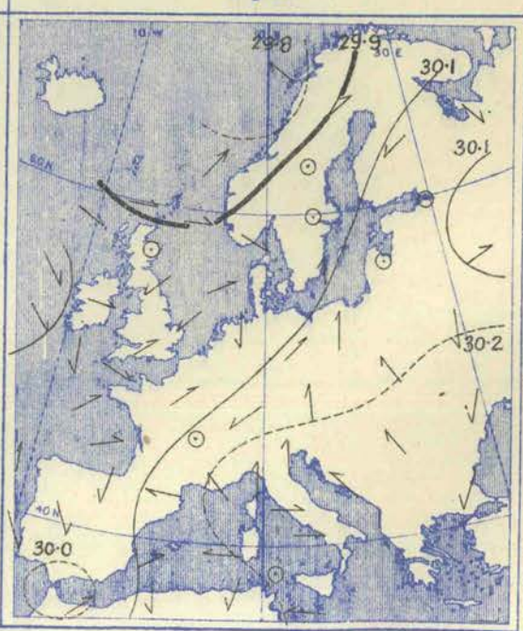


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning still fine and bright over northern, eastern and central Europe, together with the eastern and southern parts of the Mediterranean; very changeable over the British Islands and their neighbourhood, with showers at several of our western stations, fog in the east. Considerable rain later at the extreme south-eastern stations and over France, accompanied by thunder and lightning; smaller quantities in the north-west and north and 0·3 ins. at Christiansund.

Temperature rising in most places. Morning readings highest, 66° at Brindisi, and exceeding 60° at many of the Mediterranean stations; 61° at Brussels, 60° at Paris, 57° at Stockholm, 56° at the North Foreland. Lowest, 28° at Archangel, but above 40° at all the other northern stations, 41° at St. Petersburg, 42° at Hernösand, 44° at Loughborough. Rising later to between 60° and 60° over England to 73° at Paris, Wiesbaden, and Leghorn, 75° at Brussels, and 77° at Berlin.

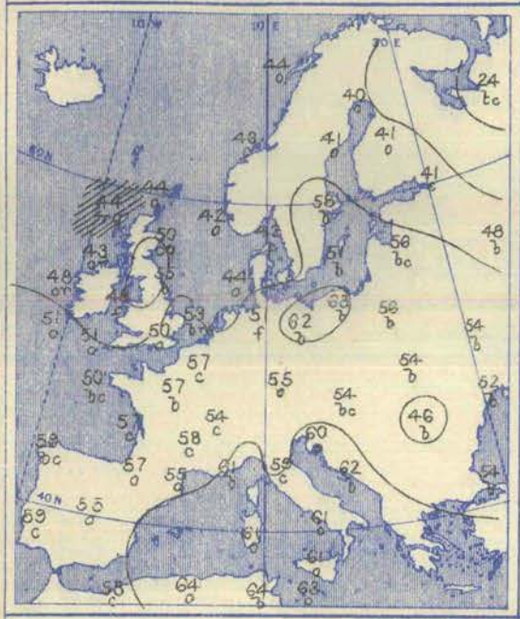
Wind (1) light from North-West and North at our western stations, and from South-East and South over Germany, the Baltic and the eastern shores of the North Sea; (2) extremely light and variable over England, the North of France and the Netherlands; (3) very light North-Westerly over Russia.

Barometer highest, (1) 30·3 ins. and more over south-eastern Europe, and exceeding 30·1 ins. all over the Mediterranean, Italy, Germany, the Baltic and Sweden; (2) exceeding 30·0 ins. off the west of Ireland. Lowest, below 29·9 ins. in a shallow depression near the Shetland Isles, and below 30·0 ins. in others over the west of France and the English Channel. Rising at our western and southern stations later.

Thursday, 29th April.

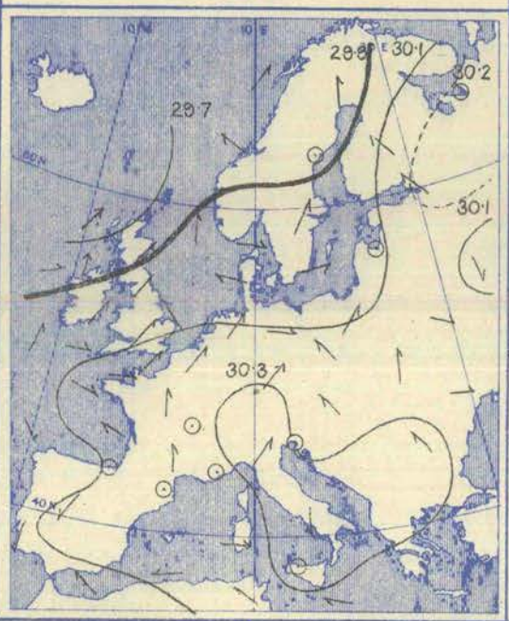
Temperature and Weather.

8 a.m.

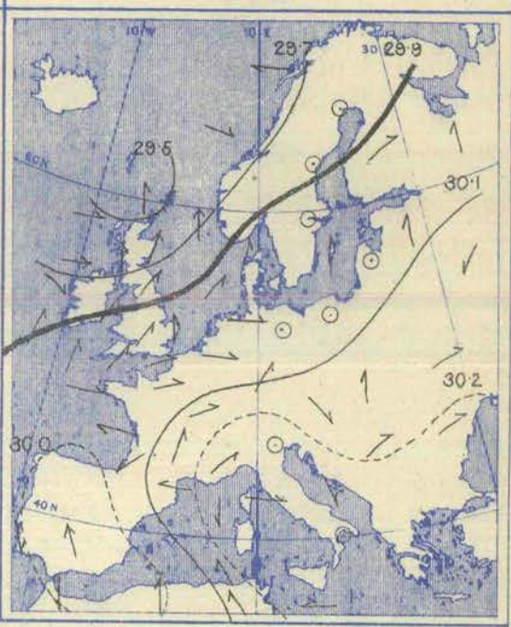


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the greater part of Continental Europe and the eastern parts of England; dull and changeable over the west and north of our Islands, with rain in places; dull over Norway and the greater part of Sweden. Rain falling later in small quantities over all our western and northern districts, and at some of the French and north German stations; thunder occurring both at Lyons and Yarmouth, lightning at Biarritz.

Temperature in morning highest, 66° to 60° at many of the Mediterranean stations, 62° at Berlin, 57° at Paris, and 50° to 56° over the eastern counties of England, 51° at Valencia; 56° at Riga, 58° at Stockholm. Lowest, 24° at Archangel, 40° at Haparanda, 42° at Skudesnaes, 43° at Malin Head, 44° at Stornoway and Wick. Rising later to between 60° and 67° over England, to 74° at Paris, and to 75° at Rochefort and Berlin, 77° at Brindisi, 78° at Limoges, 79° at Algiers.

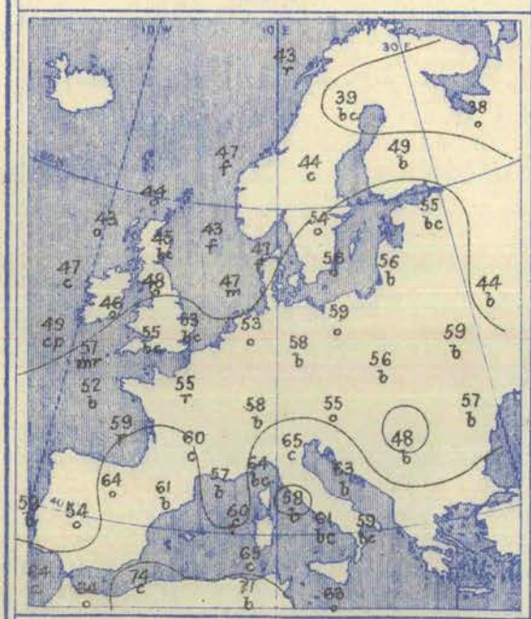
Wind very light and variable (mainly anticyclonic) over the greater part of the Continent and the Mediterranean; Southerly to Westerly, light to fresh, over the British Islands. South-Westerly to South-Easterly over Scandinavia, and blowing hard at Skudesnaes. Blowing somewhat strongly at several Scotch stations later, and freshening considerably over the Irish Sea.

Barometer highest, 30·3 ins. and more over Italy and south-eastern Europe, and exceeding 30·1 ins. over all but the north-western countries. Lowest, below 29·7 ins. over the Shetlands and extreme north-west of Scotland, and below 29·8 ins. over the west of Lapland. Falling slowly all day over the British Islands and their neighbourhood.

Friday, 30th April.

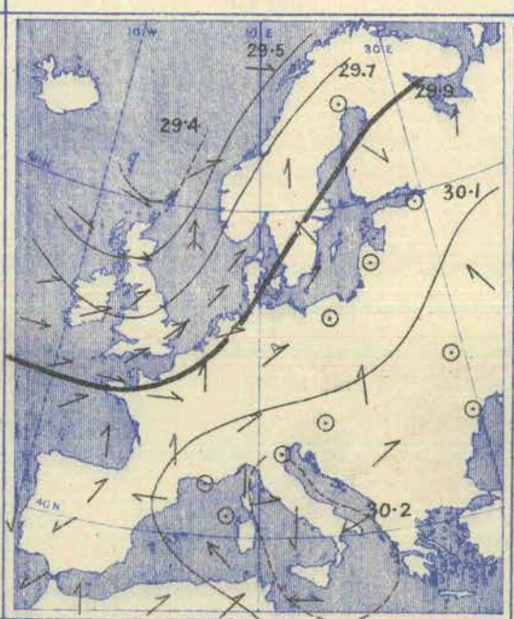
Temperature and Weather.

8 a.m.

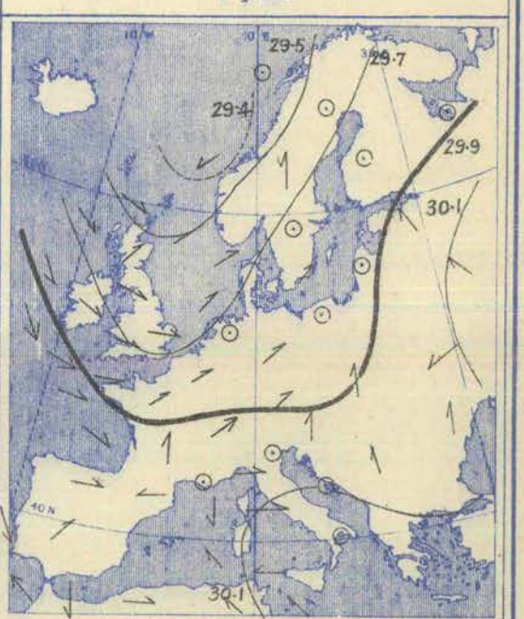


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine over Russia, central and south-eastern Europe, as well as at most of the Mediterranean stations; cloudy and somewhat unsettled over the British Islands and their neighbourhood, with rain at some stations; fog in the west of Norway. Rain falling later in almost all parts of our Islands and north-western Europe—heavily at Chassiron, Paris, and Christiansund; hail and sleet at some of our northern stations.

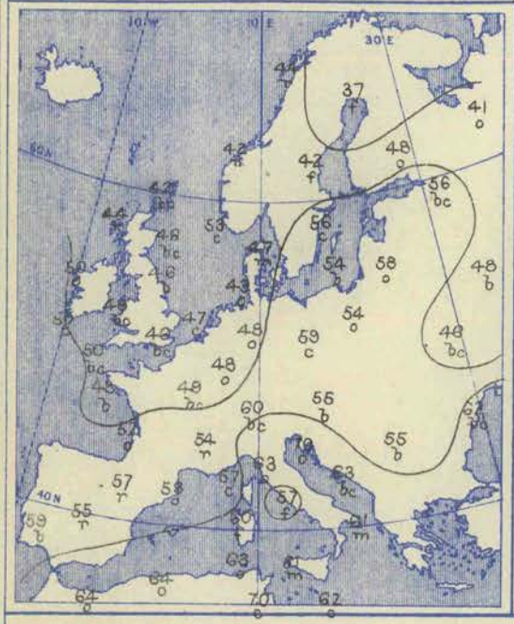
Temperature risen over the eastern parts of England and many parts of the Continent, fallen a little in Ireland. Morning readings highest, 74° at Algiers, 71° at La Calle, and exceeding 60° at many of the Mediterranean stations and at Biarritz; 56° to 59° over the greater part of central Europe, 54° at Stockholm, and exceeding 50° in the south and east of England. Lowest, 38° at Archangel and Haparanda, 43° at Stornoway, 45° on the north-east coast of Scotland. Rising later to 58° at Leith and Jersey, 62° at the North Foreland, 70° at Paris, 73° at Berlin, 79° at Brindisi, and 84° at Algiers; not touching 50° in the north of Scotland or at Malin Head.

Wind very light and anticyclonic over the Mediterranean, and the whole of south-western, southern, and eastern Europe; moderate from the Westward over the western parts of the British Islands, and from South and South-West in the east and over the North Sea. Shifting to West and North-West over the United Kingdom later, and blowing freshly at the western stations.

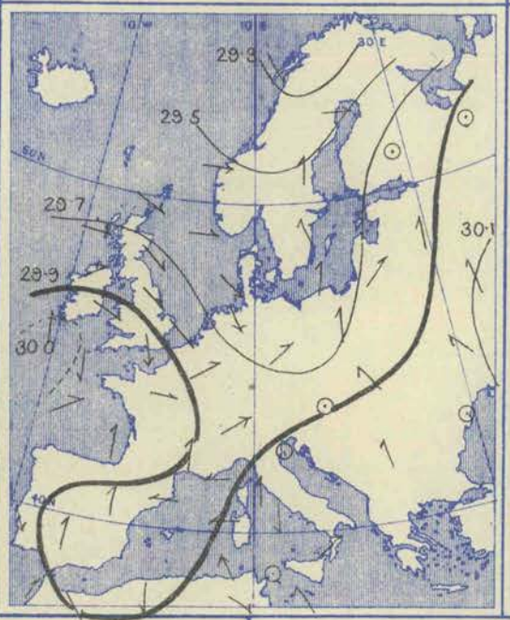
Barometer highest, 30·2 ins. and more over the Adriatic, Italy, and the eastern parts of the Mediterranean, and exceeding 30·0 ins. over all the southern and eastern parts of the Continent. Lowest, below 29·4 ins. over the Shetland Islands, and below 29·6 ins. all over Scotland and the west of Norway. Rising later over the British Islands, but falling over France and the countries lying to the eastward of the North Sea.

Saturday, 1st May.

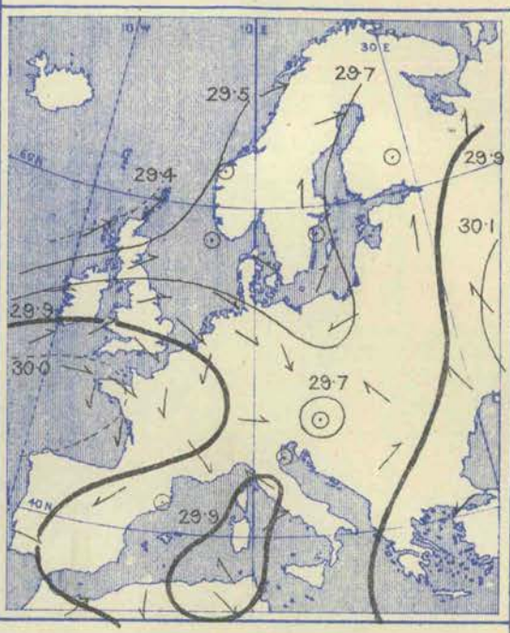
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Russia and south-eastern Europe; cloudy and unsettled over Scandinavia, the Baltic, the eastern shores of the North Sea, and central Europe, with rain in several places, as well as on our extreme west and north-west coasts; fine over the north and west of France, England, and the east of Ireland (fall large at Munich). Rainy later over the southern parts of France, central, and northern Europe, and some showers falling in the north and west of the United Kingdom; fine over England and the north of France.

Temperature fallen decidedly over England and France, risen somewhat over the northern half of Russia. Morning readings highest, 70° at Sfax, 60° and more at many of the Mediterranean stations, 50° at Berlin, 56° at Stockholm and St. Petersburg. Lowest, 37° at Haparanda, 41° at Archangel and Bodo, 42° at Christiansund and Sumburgh Head, 45° at Leith. Touching 59° in several parts of Great Britain later, 63° at Berlin, 68° at Munich, and 72° at Nice; very cold in the Hebrides and Shetlands at night.

Wind cyclonic South-Easterly and Southerly over Sweden and the Baltic, but not strong; North-Westerly over the North Sea; anticyclonic from South-West to North-West over the British Islands, Northerly over the Channel and Bay of Biscay, Easterly in the south of France. The South-Westerly wind on our extreme western coasts freshening later and spreading Eastwards and Northwards—falling almost calm over the east of England.

Barometer highest, 30·1 ins. to 29·9 ins. over Russia, south-eastern and central Europe, and 30·0 ins. and more to 29·9 ins. over our south-western districts, the Bay of Biscay, and the western parts of France and Spain. Lowest, below 29·3 ins. over the western parts of Lapland, and about 29·5 ins. in a secondary depression over Denmark. Rising over France, England, and the North Sea later, but beginning to fall again in Ireland and the west of Scotland.

GENERAL NOTES.

At the commencement of this week the barometer was high, 30·4 ins. to 30·1 ins., over all the northern parts of Europe, and was apparently rather high over the northern half of Africa also, at the same time it was low over the Atlantic (off the Portuguese coast) and shallow secondary disturbances were soon developed over the Bay of Biscay, France, and the English Channel. Thus, while Easterly breezes were experienced over all the northern countries, South-Westerly breezes were felt over Algeria, Morocco and Spain, and very variable airs over France and the south of England.

Thunderstorms of considerable severity were experienced over many parts of France, Holland, and some of the southern parts of England, while over the northern and eastern countries the weather was very fine. After Tuesday a great change occurred. The northern high pressure moved southwards, and spread westwards over Germany, France, Spain and the Mediterranean. Depressions at once appeared in the extreme north-west and moved north-eastwards, while "V"-shaped secondaries of moderate intensity travelled from west to east across the British Islands. The prevalent winds in the latter regions consequently became South-Westerly to North-Westerly instead of Easterly, and showery weather spread over the northern countries. Some of the nights were very cold, frost being recorded on the grass on more than one occasion, while the days were fair and bright.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 98.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	32·7	+ 2·5	31	+ 1	EASTBOURNE	50·3	+ 7·4	50	+ 7
OSWALDKIRK (Yorkshire)	32·9	- 1·2	32	- 1	VENTNOR	38·8	?	38	?
WORKSOP	33·7	+ 1·6	33	+ 1	SOUTHPORT	50·8	?	49	?
THURCASTON (Leicestershire)	40·9	+ 7·6	40	+ 6	COLWYN BAY	46·7	?	45	?
MARGATE	55·8	+18·0	55	+18	NEWQUAY				
WESTBOURNE (Sussex)	48·0*	+ 3·2	48*	+ 2	TORQUAY	45·0*	+ 1·5	45*	- 1
BRIGHTON	45·4	+ 1·4	45	+ 1	GUERNSEY	46·1*	- 2·4	46*	- 4

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending Jan. 16th, 1897	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	10·4	?	19	?
,, ,, ,, ,,	Jersey	—	—	—	—	—	—	—	—	—	—	—	6·8	- 9·0	11	- 16
,, ,, ,, 23rd, ,,	Hereford	38	21	35·9	26·8	31·5	- 6·8	0	74	1	0·03	-0·56	—	—	—	—
,, ,, ,, 30th ,,	Harrogate	39	21	35·9	26·1	31·2	- 6·0	0	76	4	0·26	?	19·5	?	33	?
,, ,, ,, ,,	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	12·0	+ 2·1	20	+ 3
,, ,, Mar. 13th, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	25·8	- 1·2	33	- 3
,, ,, ,, 20th, ,,	Fort Augustus	51	35	45·9	37·4	41·5	+ 2·0	11	18	7	1·26	+0·58	7·1	- 9·1	9	- 11
,, ,, ,, ,, ,,	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	13·4	- 11·1	16	- 15
,, ,, April 3rd, ,,	Churchstoke	54	23	45·5	31·1	38·1	- 4.4	10	39	6	0·45	+0·01	20·8	- 8·2	23	- 10
,, ,, ,, 10th, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	39·9	?	43	?
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	28·7	- 8·8	31	- 10

Wyman & Sons, Ltd. Lith, 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIV. No. 18.] *Third Series.* WEEK ENDING SATURDAY, MAY 8TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95 only.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 104.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	° 55	° 29	° 48·6	° 36·0	° 41·9	4 below	Day-deg. 18	Day-deg. −16	Day-deg. 23	Day-deg. +12	Day-deg. 214	Day-deg. − 9	Day-deg. 595	Day-deg. − 1
	1. SCOTLAND, EAST	62	30	52·9	36·6	44·2	2 below	38	− 3	15	+ 4	272	− 18	634	+ 4
	2. ENGLAND, N.E.	61	34	54·5	40·3	47·0	0 (average)	42	+ 4	5	− 2	319	+ 39	458	− 79
	3. ENGLAND, EAST	66	33	57·0	39·8	47·9	1 below	51	− 1	6	− 1	413	+ 46	480	−122
	4. MIDLAND COUNTIES	66	32	56·1	39·9	47·5	1 below	47	− 7	6	− 2	414	+ 18	485	−120
	5. ENGLAND, SOUTH	65	34	56·3	41·8	48·6	1 below	47	−11	1	− 1	457	+ 42	291	−181
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	57	34	50·6	39·4	44·6	4 below	29	−16	7	0	279	− 33	429	− 21
	7. ENGLAND, N.W.	58	35	52·5	41·7	46·8	2 below	35	−12	1	− 4	331	+ 13	363	− 85
	8. ENGLAND, S.W.	65	32	53·7	42·3	47·7	2 below	40	−13	0	− 3	463	+ 31	219	−138
	9. IRELAND, NORTH	58	32	50·7	39·0	44·5	4 below	30	−18	8	+ 3	333	− 51	398	+ 11
	10. IRELAND, SOUTH	60	31	54·0	42·6	48·0	2 below	42	−12	0	− 3	502*	+ 7	242	− 52
	—CHANNEL ISLANDS	57	38	54·2	45·3	49·5	2 below	53	− 6	0	0	661*	+133	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 104.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	10ths of in. 18	10ths of ins. 12 more	86	+ 1	Ins. 15·5	Ins. − 1·1	32	− 3	29	− 5	343	+ 22	26	+ 2
	1. SCOTLAND, EAST	6	5	0 (average)	77	+11	9·0	− 0·7	48	+12	45	+11	365	− 15	27	− 1
	2. ENGLAND, N.E.	2	1	3 less	75	+11	7·9	+ 0·4	47	+12	44	+11	385	+ 19	28	+ 1
	3 ENGLAND, EAST	4	2	2 less	75	+12	8·9	+ 1·7	49	+ 8	46	+ 6	408	− 12	30	− 1
	4. MIDLAND COUNTIES	3	1	3 less	73	+13	10·2	+ 2·0	47	+ 9	44	+ 7	391	+ 4	28	0
	5. ENGLAND, SOUTH	3	2	2 less	69	+11	11·2	+ 2·2	50	+ 6	47	+ 5	426	− 12	31	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	9	4 more	80	+ 9	14·7	− 1·3	34	− 7	32	− 8	373	− 11	27	− 1
	7. ENGLAND, N.W.	7	7	3 more	84	+19	11·4	+ 1·7	43	+ 1	40	+ 2	377	− 3	27	0
	8. ENGLAND, S.W.	5	5	0 (average)	89	+23	17·5	+ 5·3	43	− 2	42	− 3	404	− 70	29	− 6
	9. IRELAND, NORTH	7	10	5 more	92	+17	13·8	+ 2·3	30	− 8	28	− 8	363	− 5	27	0
	10. IRELAND, SOUTH	5	5	1 less	86	+16	16·1	+ 3·1	33	− 9	31	−10	394	− 42	29	− 3
	—CHANNEL ISLANDS	4	4	0 (average)	94	+22	14·7	+ 4·1	47	− 2	46	− 4	420	− 93	32	− 6

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was in an unsettled condition, with frequent falls of rain, over the western and northern parts of the Kingdom, but elsewhere, although a little rain was experienced about the middle of the week, the condition was generally fair and dry. Slight thunderstorms occurred in isolated parts of Great Britain—mostly during the middle of the week.

Temperature just equalled the mean in England N.E., but was below it in all other districts, the deficiency amounting to 4° in Scotland N. and W. and in Ireland N. The highest of the maxima were recorded on the 8th, and ranged from 66° in England E. and the Midland Counties, and from 65° in England S. and S.W. to 55° in Scotland N. The lowest of the minima were recorded either on the 4th or 6th, and ranged from 29° in Scotland N., 30° in Scotland E., and 31° in Ireland S. to 35° in England N.W., and to 38° in the Channel Islands. Sharp ground frosts were of frequent occurrence in all the inland parts of the Kingdom.

Rainfall was much more than the mean amount in Scotland N., and considerably in excess in Scotland W., England N.W., and Ireland N.; it just equalled the normal in Scotland E., England S.W. and the Channel Islands, but elsewhere there was a decided deficit.

Bright Sunshine exceeded the normal amount in all the "wheat producing" districts as well as in England N.W., but showed a deficiency in all other localities. The percentage of the possible duration ranged from 47 in England S., 46 in England E. and the Channel Islands, and 45 in Scotland E. to 31 in Ireland S., 29 in Scotland N., and 28 in Ireland N.

Barometer and Wind.—During the whole of the period the barometer was highest in the south and south-west and a series of depressions travelled north-eastward over our north-western and extreme northern coasts. Most of the disturbances were somewhat shallow and the winds were consequently light or moderate in force and between South-West and North-West in direction. The system observed on the 4th, however, was rather deep and caused the wind to increase to a full or strong gale from the South-Westward over all the north-western and northern parts of the Kingdom.

607 | 90 W. & S., Ltd.
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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 103 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	34	47·1	37·3	42·0	- 1·9	14	13	7	1·17	+0·77	*	*	*	*
	Stornoway	49	32	46·4	34·9	40·4	- 5·2	12	26	7	2·24	+1·91	44·9	+ 4·1	41	+ 3
	Wick	52	29	50·3	36·6	43·0	- 2·7	30	15	7	0·56	+0·15	*	*	*	*
	Lairg Ⓢ	52	30	49·8	34·6	41·7	- 3·8	22	28	7	1·26	+0·77	*	*	*	*
	Glencarron Ⓢ	51	32	47·2	34·7	40·6	- 5·7	15	27	7	3·33	+2·39	*	*	*	*
	Fort Augustus Ⓢ	55	33	50·9	36·0	43·0	- 5·2	32	17	6	1·33	+0·83	27·5	- 0·3	25	- 3
	Fort William Ⓢ	51	35	48·5	38·0	42·9	- 5·4	23	11	7	2·58	+1·78	22·0	-14·8	20	-15
1. SCOTLAND, E.	Nairn	56	32	52·7	36·9	44·3	- 3·2	38	14	7	0·62	+0·28	*	*	*	*
	Aberdeen	60	34	54·6	38·6	46·1	- 0·4	43	10	7	0·40	-0·03	56·4	+17·2	52	+15
	Braemar Ⓢ	53	32	48·0	33·8	40·5	- 3·5	17	30	5	0·70	+0·17	46·8†	+11·2†	43†	+ 9†
	Ochtertyre Ⓢ	55	30	52·9	36·0	43·9	- 3·8	39	17	6	0·66	+0·18	*	*	*	*
	Leith	58	36	54·9	38·9	46·4	- 1·6	44	9	5	0·12	-0·18	*	*	*	*
	Marchmont Ⓢ	62	30	54·3	35·3	44·2	- 2·0	44	19	3	0·19	-0·31	49·8	+12·8	46	+10
2. ENGLAND, N.E.	Alnwick Castle	58	36	52·6	39·9	45·9	+ 0·3	36	6	2	0·28	-0·14	*	*	*	*
	Durham	60	34	54·6	38·8	46·2	- 1·5	43	9	2	0·03	-0·35	50·7	+17·2	47	+16
	Shields	60	35	55·0	39·7	46·9	+ 0·4	44	6	2	0·02	-0·34	*	*	*	*
	Scarborough Ⓜ	59	35	53·4	?40·5	?46·6	?- 0·6	?39	? 4	1	0·14	-0·26	*	*	*	*
	York	58	34	55·7	40·1	47·4	- 1·2	46	5	3	0·06	-0·29	43·4	+ 6·7	40	+ 5
	Spurn Head	61	40	55·4	42·7	48·7	+ 1·2	47	0	3	0·17	-0·13	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	65	33	57·9	38·6	47·7	- 0·9	54	10	4	0·28	-0·10	44·6	+ 3·0	42	+ 2
	Yarmouth	58	37	54·1	41·3	47·3	- 0·4	40	2	5	0·17	-0·18	*	*	*	*
	Geldeston	61	36	57·2	39·4	47·8	- 0·5	52	7	3	0·12	-0·20	47·2	+ 4·2	45	+ 2
	Cambridge	66	34	59·0	39·9	48·9	- 1·1	57	6	3	0·07	-0·31	52·7	+11·9	50	+11
	Rothamsted	64	36	56·9	40·0	47·9	- 0·9	50	6	3	0·14	-0·34	50·6	+12·3	48	+11
4. MIDLAND COUNTIES	Harrogate Ⓜ	55	33	52·6	39·1	45·5	- 2·1	37	8	1	0·01	?	46·5	?	43	?
	Bawtry (Hesley Hall)	63	35	57·7	40·0	48·3	- 1·2	53	6	3	0·05	-0·30	*	*	*	*
	Loughborough	66	36	58·1	41·7	49·4	- 0·6	53	1	2	0·03	-0·35	*	*	*	*
	Stamford (Duddington)	65	34	57·6	40·3	48·4	- 1·0	52	5	2	0·04	-0·36	*	*	*	*
	Cheadle Ⓜ	62	36	53·6	38·6	45·7	- 1·7	40	10	5	0·42	-0·03	*	*	*	*
	Shirley (near Solihull)	64	32	55·9	39·9	47·4	- 1·8	47	6	3	0·08	?	*	*	*	*
	Churchstoke Ⓜ	61	34	54·9	39·2	46·6	- 0·6	44	8	6	0·23	-0·16	44·1	+ 6·1	42	+ 5
	Hereford Ⓜ	61	35	57·4	40·3	48·3	- 0·9	51	5	5	0·11	-0·28	*	*	*	*
	Cirencester	60	33	56·3	38·6	46·9	- 1·3	49	10	5	0·11	-0·30	46·5	+ 5·3	44	+ 4
	Oxford	63	34	56·7	41·0	48·4	- 1·5	49	3	2	0·09	-0·27	45·5	+ 6·0	43	+ 4
5. ENGLAND, S.	London	65	35	59·6	41·0	49·7	- 1·3	58	3	3	0·19	-0·19	49·6†	+14·0†	47†	+13†
	North Foreland	59	38	56·4	42·1	48·8	+ 0·2	48	0	3	0·14	?	*	*	*	*
	Dungeness	57	34	55·1	41·4	47·8	- 1·8	43	2	3	0·06	-0·24	*	*	*	*
	Hastings (St. Leonards)	55	40	54·7	41·0	47·4	- 2·7	42	3	3	0·14	-0·19	51·9	+ 4·9	50	+ 3
	Southampton	63	38	59·0	42·4	50·2	- 1·1	57	0	3	0·19	-0·21	45·1	+ 1·1	43	0
	Hurst Castle	58	39	55·4	44·1	49·4	- 1·1	52	0	4	0·15	-0·17	*	*	*	*
	Shaftesbury Ⓜ	61	36	54·1	40·3	46·8	- 2·0	41	5	4	0·36	-0·22	*	*	*	*
6 SCOTLAND, W.	Laudale (Loch Sunart)	51	35	49·3	37·2	42·9	- 5·8	26	13	7	2·34	+1·55	*	*	*	*
	Glasgow	52	36	49·5	38·2	43·5	- 4·3	26	11	5	0·83	+0·44	29·3	- 4·0	27	- 5
	Ardrossan	52	39	50·3	42·1	46·0	- 2·5	28	0	6	0·36	-0·04	*	*	*	*
	Glenlee Ⓢ	55	34	52·1	38·0	44·6	- 2·9	35	11	6	0·67	+0·14	*	*	*	*
	Gilcrux (Cumberland)	53	36	50·7	40·4	45·2	- 2·8	29	4	5	0·88	?	35·2	?	33	?
	Douglas Isle of Man	57	36	51·5	40·2	45·5	- 2·7	32	5	5	0·46	+0·04	37·5	- 8·5	35	-10
7. ENGLAND, N.W.	Stonyhurst	53	35	50·4	39·8	44·8	- 3·5	29	6	7	1·72	+1·24	39·0	+ 1·0	36	0
	Blackpool Ⓜ	54	40	52·5	43·2	47·6	- 1·2	39	0	6	0·42	+0·07	38·4	+ 0·4	36	0
	Manchester (Prestwich)	56	35	52·6	39·2	45·5	- 2·5	36	8	6	0·61	+0·19	39·8	?	37	?
	Liverpool Obsy. (Bidston)	58	39	54·1	42·6	48·0	- 1·9	42	0	7	0·27	-0·03	*	*	*	*
	Llandudno Ⓜ	56	40	53·1	43·3	47·9	- 2·0	41	0	7	0·45	+0·08	*	*	*	*
	Holyhead	54	40	52·1	42·3	46·9	- 2·6	34	0	7	0·40	+0·03	*	*	*	*
8. ENGLAND, S.W.	Llandovery	58	32	55·0	39·4	46·7	- 2·2	44	7	6	0·69	+0·17	*	*	*	*
	Pembroke	51	41	49·9	44·4	47·0	- 1·7	35	0	5	0·44	+0·08	32·3	-14·4	31	-14
	Clifton												*	*	*	*
	Arlington (N. Devon)	54	36	52·0	40 9	46·1	- 2·5	33	3	6	0·97	+0·45	*	*	*	*
	Cullompton Ⓜ	65	34	57·5	40·8	48·7	- 1·5	52	3	7	0·36	-0·20	37·7	- 2·3	36	- 5
	Falmouth	57	40	53·9	43·8	48·5	- 1·7	46	0	5	0·41	-0·24	49·5	+ 2·5	48	+ 1
	Plymouth	59	40	54·5	44·6	49·3	- 1·9	51	0	3	0·35	-0·10	45·6	+ 0·9	44	0
	Prawle Point	55	38	52·0	42·3	47·3	- 1·9	37	0	5	0·25	-0·07	*	*	*	*
9. IRELAND, N.	Malin Head	49	35	47·7	39·7	43·5	- 4·8	20	6	7	1·03	?	*	*	*	*
	Londonderry	53	34	50·9	37·9	44·0	- 5·5	31	11	7	1·11	+0·71	*	*	*	*
	Edenfel (Omagh)	53	33	49·0	39·1	43·8	- 3·7	25	8	7	1·33	+0·86	*	*	*	*
	Belmullet	52	37	50·0	40·9	45·2	- 4·4	27	3	6	1·16	+0·67	*	*	*	*
	Markree Castle	54	35	51·2	39·0	44·7	- 3·1	32	8	7	1·12	+0·62	29·1	- 9·7	27	-10
	Armagh	57	32	52·2	37·4	44·4	- 3·6	36	13	6	0 72	+0·22	36·3	- 6·4	28	- 8
	Donaghadee	58	33	53·9	38·9	46·0	- 2·0	41	9	6	0·34	-0·06	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	60	36	55·6	41·6	48·2	- 1·8	45	1	7	0·54	+0·09	37·0	- 6·4	35	- 7
	Parsonstown	58	34	53·6	41·1	47·0	- 2·0	39	3	5	0·55	+0·07	28·4	-10·6	27	-11
	Kilkenny	58	31	54·4	40·1	46·8	- 2·6	42	5	6	0·54	+0·07	*	*	*	*
	Roche's Point	59	40	55·0	43·6	49·0	- 1·7	49	0	4	0·10	-0·60	*	*	*	*
	Valencia	54	42	52·4	45·1	48·5	- 2·2	46	0	6	0·49	-0·33	34·0	- 9·3	32	-11
	Killarney	55	35	53·1	44·2	48·4	- 0·6	45	0	5	0·27	?	*	*	*	*
	Foynes	?	39	?	43·3	?	?	?	?	5	0·72	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	45	54·0	46·0	49·8	- 0·7	55	0	3	0·21	-0·17	41·8	?	41	?
	Jersey	56	38	54·4	44·6	49·2	- 2·6	50	0	4	0·50	+0·13	50·7	+ 0·3	49	0

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

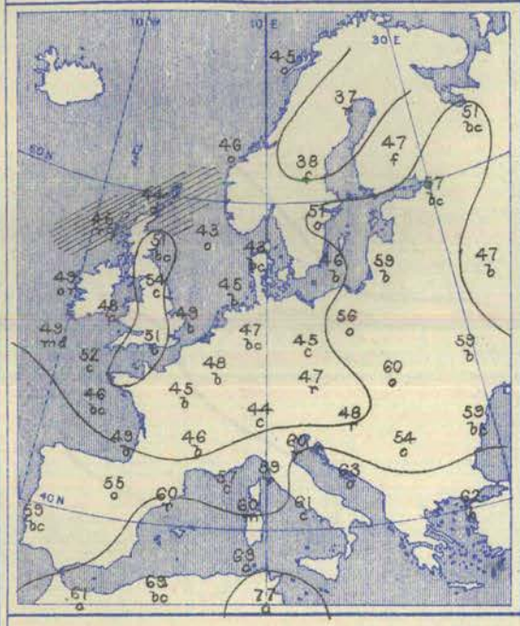
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 2nd May.

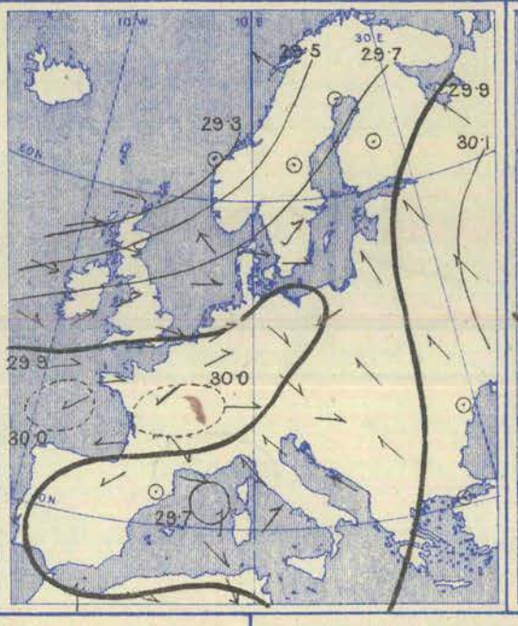
Temperature and Weather.

8 a.m.

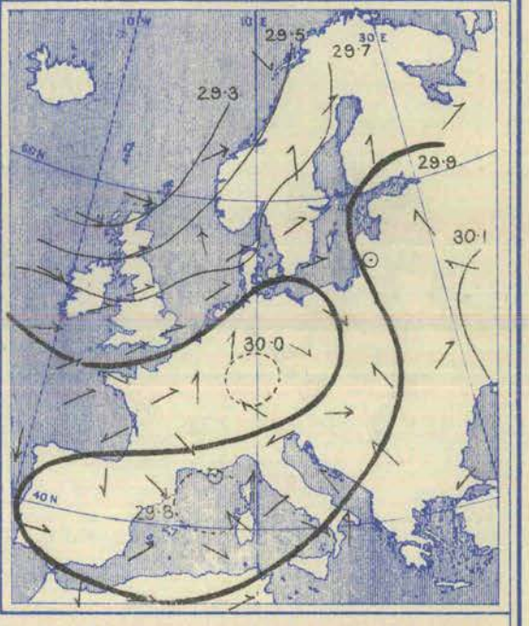


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine in the eastern and southern parts of the United Kingdom, as well as over France, the Netherlands, Denmark, and the greater part of Russia. Dull and unsettled in the west and extreme north of our Islands, with rain in places. Rain falling also in many parts of Austria, south Germany, and northern Italy. Showery weather extending later over the greater part of the United Kingdom; heavy rain falling at Trieste and Buda Pesth; thunderstorm occurring at Nemours at night.

Temperature risen slightly over England, fallen briskly over France, Germany, and Austria; changed irregularly elsewhere. Morning readings highest, 77° at Sfax, 69° at Algiers, and 63° at Lesina, Cagliari, La Calle and Tunis; above 55° over southern and eastern Europe generally. Lowest, (1) 37° at Haparanda, and 38° at Hernösand; (2) 39° at Belfort, and 42° at Münster; (3) 42° at Wick, and 44° at Sumburgh Head. Rising during day to 55° and upwards over the greater part of the United Kingdom, and touching 62° in London; exceeding 70° in many parts of southern Europe, the highest reading of all being 79° at Cagliari and Palermo.

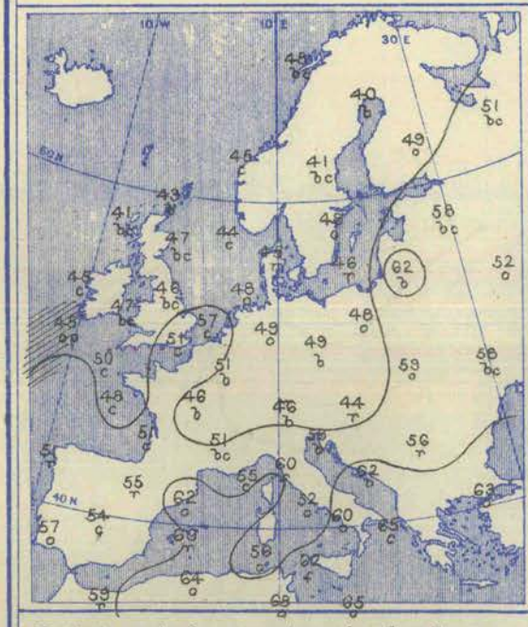
Wind South-Westerly or Westerly over our Islands, the Netherlands, Denmark, and the south of Sweden; light or moderate in force generally, but strong on our extreme north and north-west coasts; South-Easterly in the west of Norway, with a moderate gale at Skudesnaes. Light from the North-Westward in Germany; moderate from the North-Eastward in France. Calm in the northern parts of Sweden; light from the South-Eastward in Russia; variable in Italy and Austria. No important change occurring during day.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the central and southern parts of Russia; 30·0 ins. and less in two other areas—one lying over central France, and the other over the northern parts of the Bay of Biscay. Lowest, 29·3 ins. and less in a depression lying to the northward of our Islands; 29·7 ins. and less in a shallow system over the Gulf of Genoa. No important change occurring during day.

Monday, 3rd May.

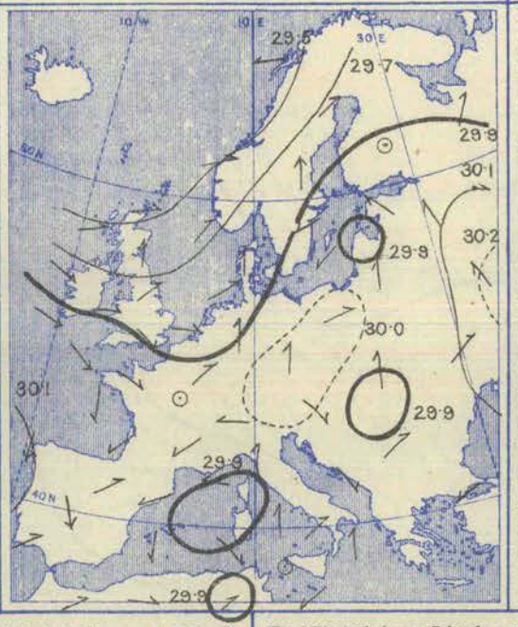
Temperature and Weather.

8 a.m.

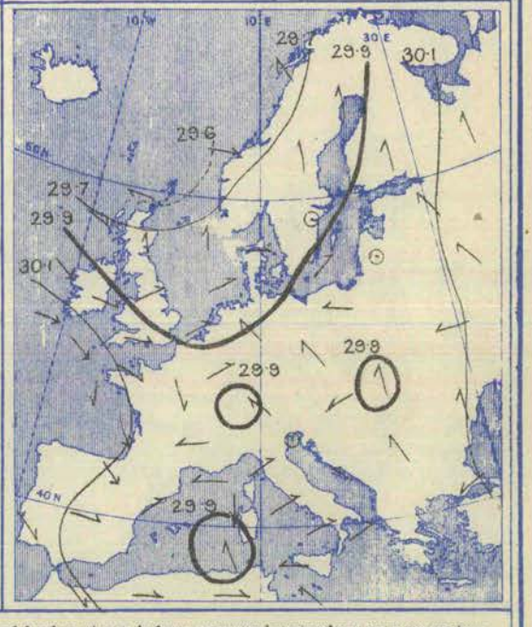


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western and northern Europe as a whole, but showery at some of the Irish stations, and rainy at Wisby and the Scaw. Cloudy or dull in most of the central and southern countries, with rain at Vienna and Hermanstadt, as well as at Palma, Biarritz, and Corunna. Showers of rain or hail falling later at most of our own western and northern stations, as well as in the Netherlands, Denmark, and the south of Scandinavia; lightning seen at Dungeness at night.

Temperature fallen in our Islands, as well as in the east and south of Germany; risen in most other localities. Morning readings highest, 68° at Sfax, 65° at Brindisi, Malta, and La Calle, and 64° at Algiers; above 60° at many of the Mediterranean and Adriatic stations, and touching 62° at Riga. Lowest, (1) 39° at Malin Head, and 41° at Stornoway; (2) 40° at Haparanda, and 41° at Hernösand; (3) 43° at Prague, and 44° at Breslau. Rising during day to 55° and upwards at several of our own central and southern stations; exceeding 60° in France and Germany, and exceeding 70° at most of the Italian stations. Ground frost occurring over the inland parts of the United Kingdom at night.

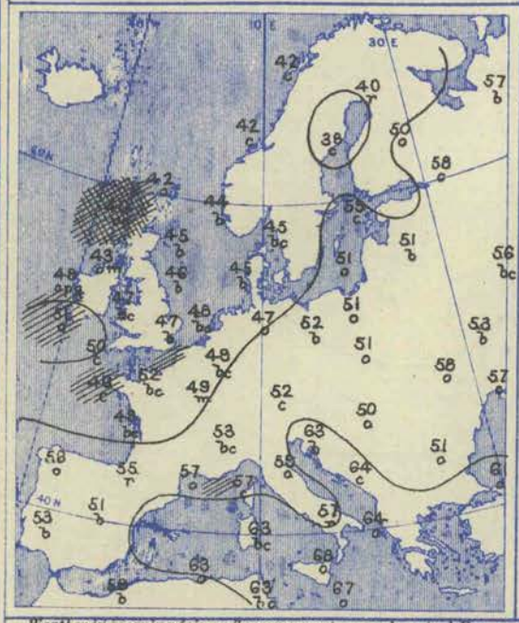
Wind Westerly in our Islands, and fresh or strong in force on several parts of our extreme western and northern coasts; moderate from the Southward or South-Westward over Scandinavia, Denmark, and the Netherlands; North-Easterly in France, but variable in Spain, and also in Germany; Southerly in Italy; North-Westerly or Westerly in Austria; South-Easterly in Russia. Subsequently veering to the North-Westward in all the more western parts of the United Kingdom, but becoming rather variable on our east coasts.

Barometer highest, 30·2 ins. and upwards over central Russia; 30·1 ins. and upwards in an area lying to the west of Portugal; 30·0 ins. and upwards over Germany. Lowest, 29·5 ins. and less in a large area lying to the northward of our Islands; 29·9 ins. and less in three shallow depressions lying respectively over eastern Austria, off the south of France, and over Tunis. High pressure system off Portuguese coasts subsequently spreading north-eastward to the extreme south-west of our Islands.

Tuesday, 4th May.

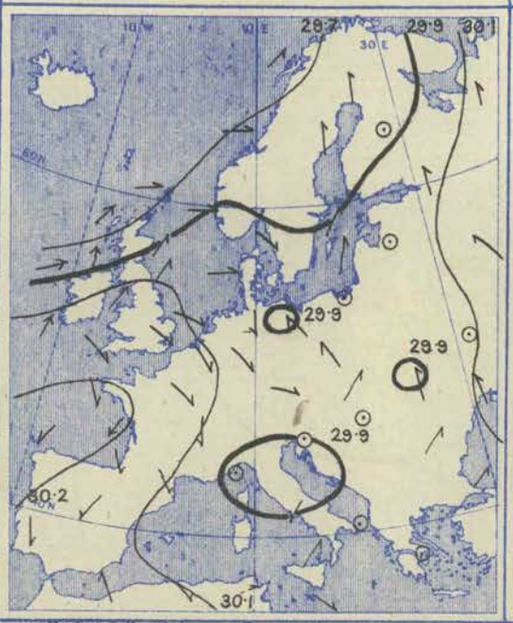
Temperature and Weather.

8 a.m.

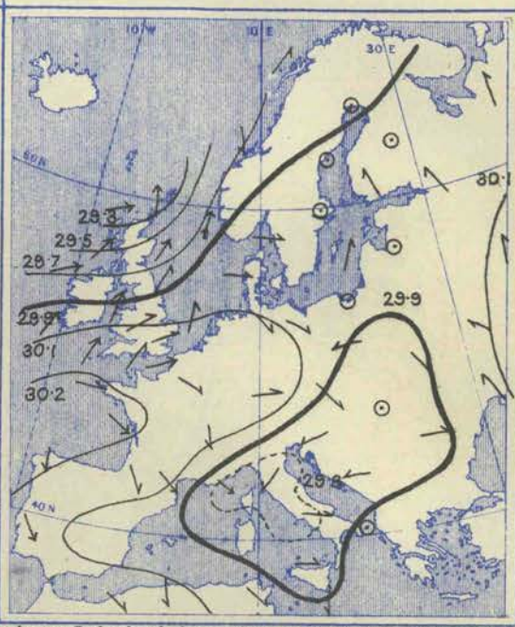


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western and central Europe generally, but dull and showery on our own extreme north-west coasts. Dull over the Baltic, Finland, and Lapland, with rain at Copenhagen and Haparanda; cloudy or dull over Austria, Italy, and the south of France, with rain at Biarritz. Rainy weather extending later from the westward over nearly all parts of the United Kingdom, amount large at Stornoway, where a thunderstorm occurred. Heavy rain falling also in many parts of Italy and Austria.

Temperature risen over the more central parts of the Continent, but fallen or changed irregularly elsewhere. Morning readings highest, 68° at Palermo, 67° at Malta, and 65° at Barcelona; above 60° at many of the Mediterranean and Adriatic stations, and above 55° over the northern and central parts of Russia. Lowest, (1) 38° at Hernösand, 40° at Haparanda, and 41° at Kuopio; (2) 40° at Stornoway and 42° at Sumburgh Head. Rising during day to between 55° and 60° at many of the English stations, and reaching 61° in London; exceeding 68° over the Spanish Peninsula and the south of France, and exceeding 70° in many parts of Spain and southern Italy.

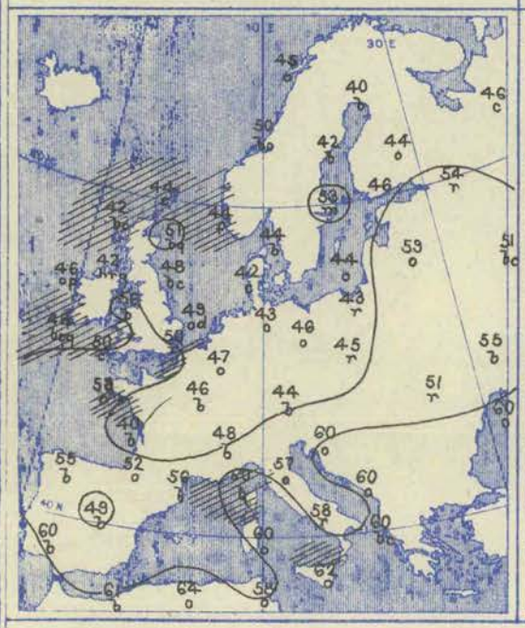
Wind Southerly or South-Westerly over Ireland and the northern parts of Great Britain, as well as in Scandinavia and Finland; strong in force on our extreme north-west coasts. Light to moderate from the North-Westward over the greater part of England, France, and the Netherlands; North-Easterly in Spain and Italy. Calm or variable over Austria and the south of Russia. Subsequently increasing to a moderate to strong gale from the South-Westward over all the more northern parts of the United Kingdom; backing to the South-Westward also over England and the neighbouring parts of the Continent.

Barometer highest, 30·3 ins. and upwards over the Bay of Biscay, 30·1 ins. and upwards in an anticyclone extending from the south-westward over nearly the whole of England, France, Spain, and Algeria, as well as in another large system over Russia. Lowest, 29·7 ins. and less in a large area lying to the northward and north-westward of our Islands; 29·9 ins. and less in shallow depressions lying respectively over Germany, north-eastern Austria, and the northern parts of Italy and the Adriatic. Deep depression advancing later to the north-west of Scotland and moving north-eastwards; barometer falling briskly on our norther coasts.

Wednesday, 5th May.

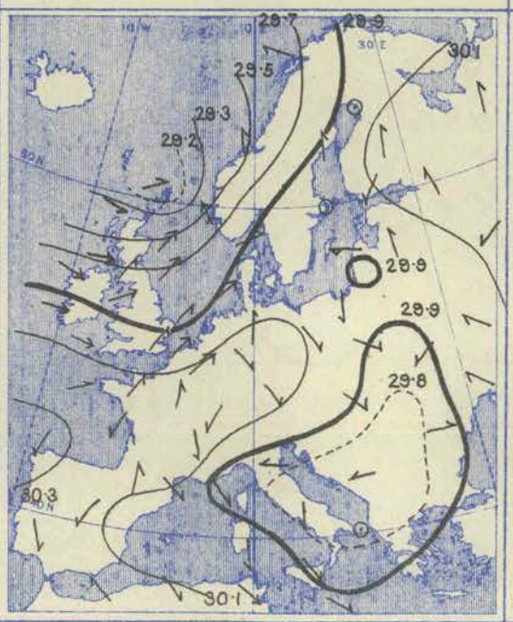
Temperature and Weather.

8 a.m.

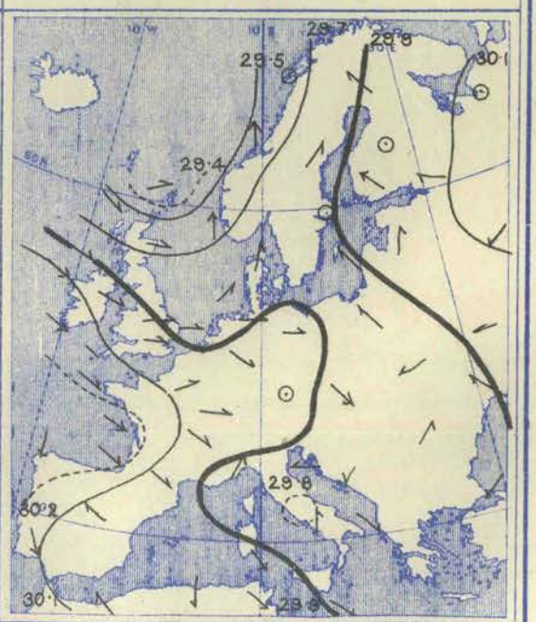


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine at most of our own western and northern stations, but showery on our extreme north-west coasts; dull and rainy over the south-east of England and the neighbouring parts of the Continent. Fine in Scandinavia and Denmark, as well as in France, Spain, and the southern parts of Italy and Russia. Dull and unsettled over Austria, eastern Germany, and the western parts of Russia, with rain in several places. Showers of rain or hail falling later over the United Kingdom generally, with a slight thunderstorm at Oxford. Heavy rain experienced in Norway and Denmark.

Temperature risen over Great Britain and the northern parts of Scandinavia, fallen elsewhere. Morning readings highest, 67° at Oporto, 64° at Algiers and Sfax, and 63° at Leghorn; above 55° over southern Europe generally. Lowest, (1) 30° at Prague, and 42° at Belfort; (2) 40° at Haparanda, and 42° at Hernösand and Karlstad; (3) 42° at Stornoway and Malin Head. Rising during day to 55° and upwards over Great Britain; exceeding 70° in many parts of southern Europe, and reaching 75° at Toulon, Nice, and Florence.

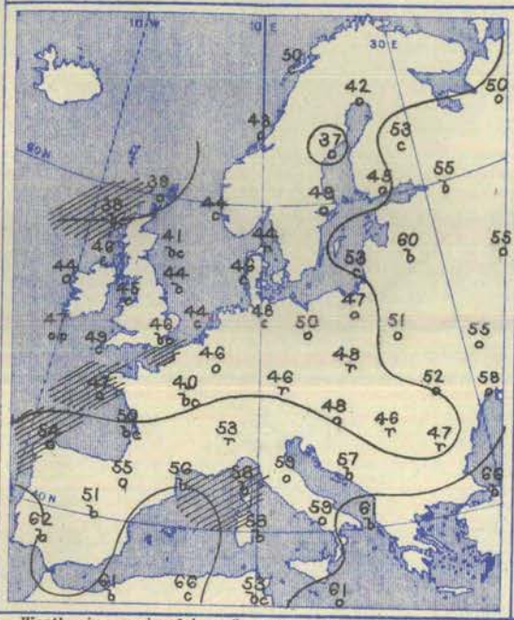
Wind strong from the Westward on many parts of our western and northern coasts. Moderate from the South-Westward in the eastern parts of the United Kingdom, as well as over the Netherlands and Denmark; Southerly or South-Easterly in Scandinavia, with a gale at Skudesnaes. Light from the South-Eastward in Russia, but from the North-Westward in Germany and Austria; Northerly (North-West to North-East) over Spain, Italy, and the south of France. Subsequently veering to the North-Westward over our Islands; no important change occurring elsewhere.

Barometer highest, 30·2 ins. to 30·3 ins. in an anticyclone over the Bay of Biscay and the neighbouring parts of France and Spain; 30·1 ins. and upwards in another system over Russia. Lowest, 29·2 ins. and less in a depression having its centre a little to the northward of the Shetlands; 29·8 ins. and less in a large shallow area over Italy, Turkey, and the Balkan Provinces. Depression in north subsequently moving north-eastwards, and barometer rising in all parts of our Islands.

Thursday, 6th May.

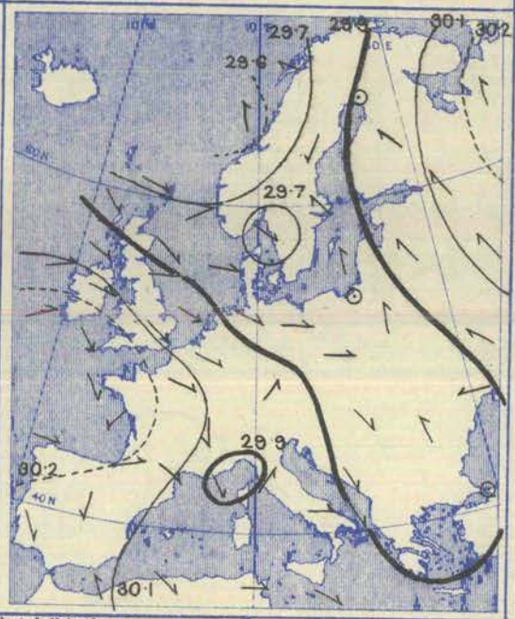
Temperature and Weather.

8 a.m.

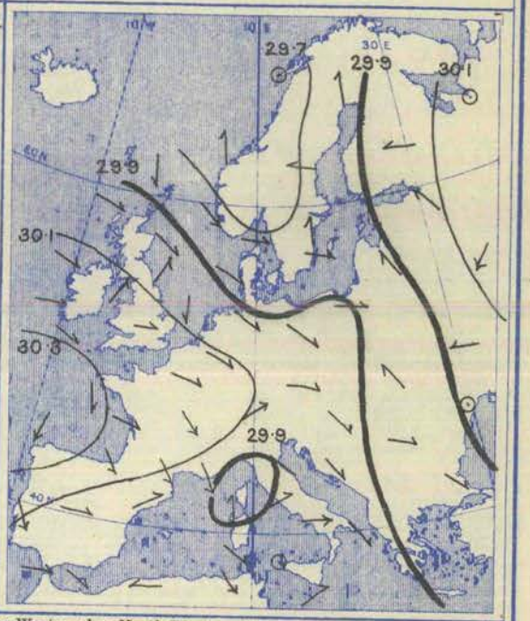


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western Europe as a whole, but dull in the west and south of Ireland, with rain at Valencia. Cloudy or dull in most of the northern and central countries, with rain in many places; dull also over the central parts of Italy, but fine in Spain. Showers of hail or rain falling later in many parts of Great Britain, and a little wet snow in London. Thunderstorm occurring at Aberdeen. Heavy rain reported at some of the north German stations.

Temperature risen over the central and southern parts of Europe, but fallen elsewhere. Morning readings highest, 66° at Algiers and Constantinople, 64° at Barcelona, 63° at Leghorn, and 62° at Lisbon; above 55° over southern Europe generally, and also over the Baltic Provinces. Lowest, (1) 37° at Hernösand, 38° at Stornoway, 39° at Sumburgh Head, and 42° at Haparanda. Daily maxima below 55° in many parts of the United Kingdom, but thermometer touching 57° at Leith and Dungeness; exceeding 70° at several stations in southern Europe, and reaching 76° at Gap. Ground frost occurring at some of the inland English stations at night.

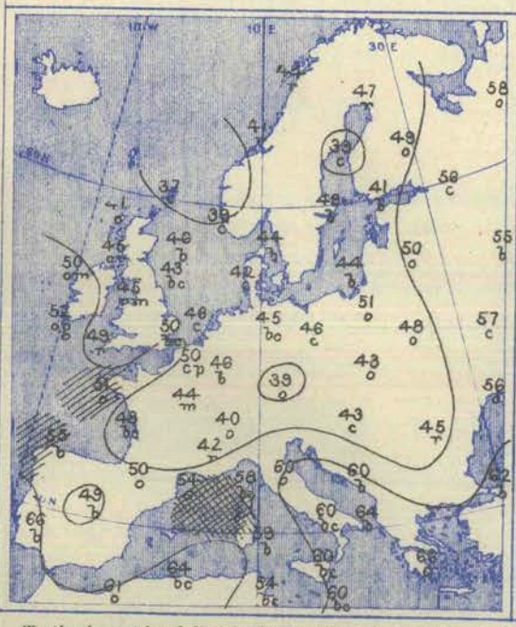
Wind moderate to fresh from the Westward or North-Westward over the greater part of our Islands, and also over the Netherlands, Denmark, Germany, Austria, and the Adriatic. South-Easterly over Russia and Sweden; variable in the south of Norway. Variable in Italy, Northerly in Spain and the south of France. Subsequently backing to the South-Westward in the north of England; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay and the neighbouring parts of our Islands, France, and Spain, and also in another system over the northern parts of Russia. Lowest, 29·6 ins. and less in a shallow depression off the west of Norway, 29·7 ins. and less in another disturbance over the north of Denmark and the south of Sweden; 29·9 ins. and less in a third over the Gulf of Genoa. No important change occurring during day.

Friday, 7th May.

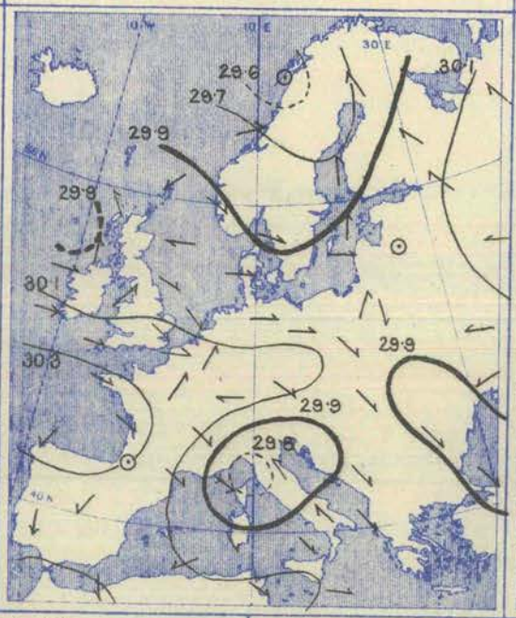
Temperature and Weather.

8 a.m.

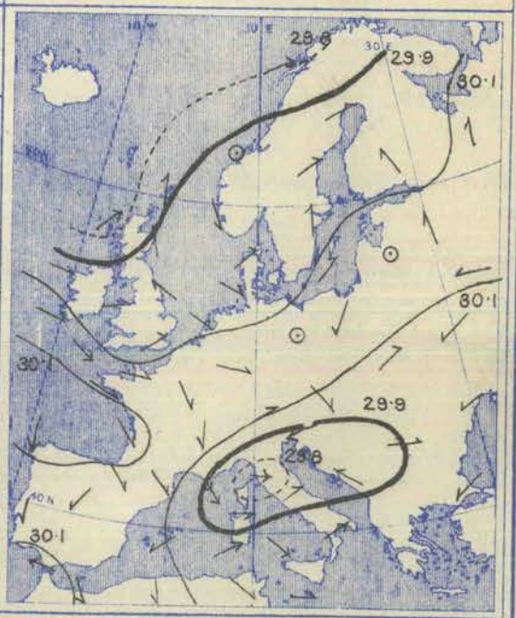


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy on our western coasts, but fine in all the more eastern parts of the United Kingdom, as well as in western Germany, Denmark, the south of Sweden, and most parts of southern Europe. Rainy over the northern parts of Scandinavia, dull over western Russia, and the greater part of Germany, Austria, and central France, with rain in a few places. Rainy weather setting in later over the northern parts of our Islands, as well as in many parts of France and the Netherlands; rain falling also in northern Italy.

Temperature risen slightly in our Islands, and also in Italy, but fallen in most other countries. Morning readings highest, 70° at Sfax, 66° at Lisbon and Athens, and 64° at Brindisi, San Fernando and Algiers; above 55° at many of the Russian stations. Lowest, (1) 37° at Sumburgh Head, and 39° at Skudesnaes and Hernösand; (2) 39° at Munich, 40° at Belfort, and 42° at Lyons. Rising during day to 55° and upwards in several parts of the United Kingdom, and to 59° at Roche's Point; exceeding 70° in some parts of Spain and northern Italy, and reaching 81° at Lisbon.

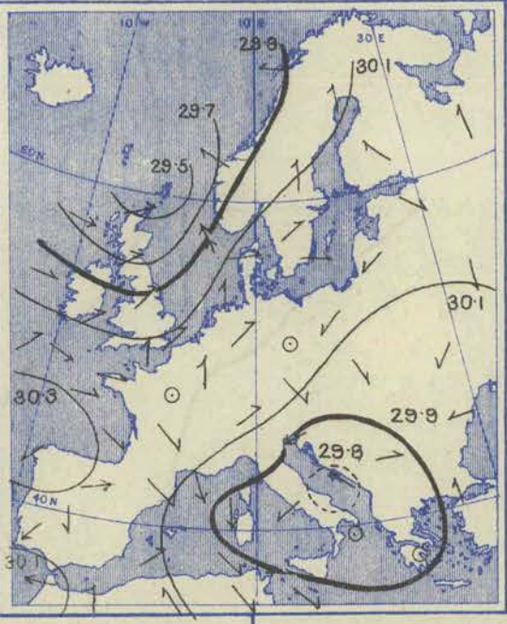
Wind moderate from the Westward or South-Westward in the west and south of our Islands, but light from the Southward on our extreme north and north-west coasts; North-Westerly in the east of England, South-Westerly over the Netherlands, Westerly over Denmark and north Germany, and Southerly over Sweden and northern Russia. North-Westerly over eastern Germany, Austria, and the Adriatic, as well as in the west and south of France, but Southerly or South-Easterly over northern Italy; North-Easterly over the Spanish Peninsula. Subsequently shifting to the South-Eastward in the east of England; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the Bay of Biscay and the neighbouring parts of France and Spain; 30·1 ins. and upwards in another system over Russia. Lowest, 29·6 ins. and less in a shallow depression off the north-west of Norway; 29·8 ins. and less in a deeper disturbance over the Gulf of Genoa. New and well-marked depression appearing later off the west of Scotland and moving north-eastwards.

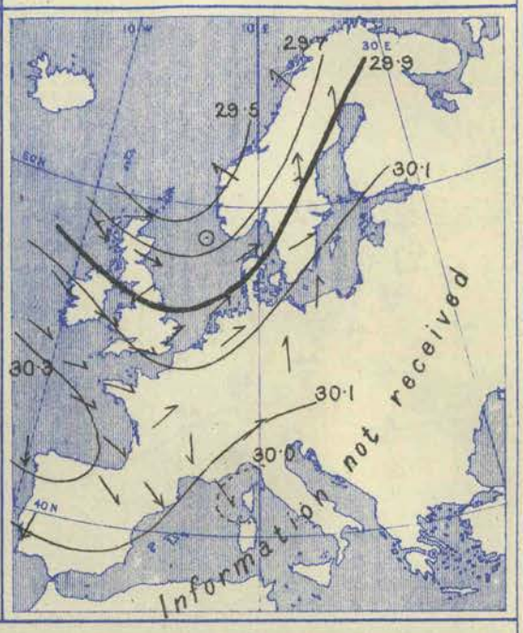
Saturday, 8th May.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in most parts of our Islands, with fog at the mouth of the Channel, mist on several parts of our western and southern coasts, and rain in the south of Ireland and the extreme north of Scotland. Fine over the greater part of northern Europe, as well as in Spain and the south of France; dull over southern Germany, Austria, and Italy, with rain at Vienna and Trieste. Rain falling later in many parts of the United Kingdom, but amount in many cases too slight for measurement; larger quantities reported in Denmark and the south of Norway.

Temperature risen in most countries, but fallen in Italy. Morning readings highest, 68° at Oporto, 66° at Sfax, and 65° at Lisbon and Barcelona; above 55° at most of the Mediterranean and Spanish coast stations, as well as at Roche's Point; above 50° in some parts of northern Russia. Lowest, (1) 38° at Haparanda, 41° at Karlstad, and 42° at Skudesnaes; (2) 41° at Vienna, and 42° at Munich. Rising during day to between 55° and 60° in many parts of the United Kingdom, and touching 63° at Hurst Castle. Rising to 65° and upwards in the west and south of France, to 74° at Perpignan, and to 77° at Lisbon.

Wind moderate from the Westward or South-Westward on our western and northern coasts generally, but strong from North-West at Wick; light from the Southward in the east of England, as well as in the Netherlands, Denmark, and Sweden; South-Easterly or Easterly in the west of Norway. Variable over northern Russia, North-Westerly in Germany, and also in the west and south of France; varying between north and east in Spain and Italy. Subsequently veering to the North-Westward in the west and north of our Islands generally, and increasing to a strong gale in the north of Scotland; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards in the north-west of Spain; 30·2 ins. and upwards in a broad band stretching from south-west to north-east across the entire Continent. Lowest, 29·5 ins. and less in a well-marked depression having its centre near the Shetlands; 29·8 ins. and less in a shallower system over the Adriatic. Depression in north subsequently moving north-eastwards, and barometer rising in most parts of the United Kingdom.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week the main feature of pressure distribution (except on the 6th) was as follows:—a high pressure area lying over the Atlantic and another over Russia, the two being united by a "col" of irregular form, stretching over France, Germany, and the Baltic. To the northward of these systems depressions of no great depth were moving from south-west to north-east off the north of Scotland, while their secondaries travelled in a parallel direction across the British Islands; to the southward (*i.e.* over the Mediterranean and south-eastern Europe) there was another series of disturbances of less intensity and less regularity both of form and movement than those prevalent in the north-west. Over the British Islands and their neighbourhood South-Westerly to North-Westerly breezes prevailed alternately, the former being marked by mild weather and some rain, while the latter were cold, dry, and accompanied by much clear sky. Several night frosts were experienced. Over the Mediterranean and south-eastern Europe also the weather was unsettled. Over western Europe the temperature was low, while over Russia it rose repeatedly to a considerable height under the influence of the light Southerly and South-Easterly winds there prevalent.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 104.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	40·3	+ 7·5	37	+ 7	EASTBOURNE	51·3	+ 5·7	49	+ 5
OSWALDKIRK (Yorkshire)	47·9	+12·0	45	+12	VENTNOR	48·0	?	46	?
WORKSOP	48·0	+13·7	45	+12	SOUTHPORT	43·8	?	41	?
THURCASTON (Leicestershire)	50·4	+14·4	48	+12	COLWYN BAY	51·7	?	49	?
MARGATE	48·0	+ 8·0	46	+ 8	NEWQUAY	44·8	0·0	43	0
WESTBOURNE (Sussex)	45·9*	- 1·7	44*	- 3	TORQUAY	50·2*	+ 5·2	49*	+ 5
BRIGHTON	56·4	+10.4	54	+10	GUERNSEY	48·0*	- 4·3	47*	- 5

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Lt.d, Lith, 63, Carter Lane,

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV. No. 19.] *Third Series.* WEEK ENDING SATURDAY, MAY 15TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 110.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	60	29	48·2	36·9	42·3	5 below	24	−14	14	+ 6	238	− 23	609	+ 5
	1. SCOTLAND, EAST	65	29	52·3	37·1	44·3	4 below	37	− 9	14	+ 6	309	− 27	648	+ 10
	2. ENGLAND, N.E.	64	32	52·0	38·2	44·7	4 below	35	−10	11	+ 6	354	+ 29	469	− 73
	3. ENGLAND, EAST	65	31	54·2	37·5	45·3	5 below	42	−17	13	+ 8	455	+ 29	493	−114
	4. MIDLAND COUNTIES	64	27	54·0	36·6	44·8	5 below	42	−19	15	+ 9	453*	− 4	501*	−110
	5. ENGLAND, SOUTH	65	31	55·7	40·0	47·4	4 below	46	−20	6	+ 5	503	+ 22	297	−176
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	59	26	52·5	38·8	45·2	4 below	36	−15	9	+ 4	315	− 48	438	− 17
	7. ENGLAND, N.W.	64	31	52·3	40·5	46·0	4 below	34	−20	4	0	365	− 7	367	− 85
	8. ENGLAND, S.W.	63	25	54·2	40·6	47·0	4 below	41	−19	4	+ 2	504	+ 12	223	−136
	9. IRELAND, NORTH	58	31	52·4	40·7	46·2	3 below	35	−18	4	+ 1	368	− 69	403*	+ 13
	10. IRELAND, SOUTH	61	30	54·4	42·5	48·1	3 below	43	−17	0	− 2	545	− 10	242	− 54
	—CHANNEL ISLANDS	63	37	55·3	43·9	49·2	3 below	50	−16	0	0	711	+117	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 110.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	4	2 less	91	+ 2	15·9	− 1·3	27	− 9	24	− 9	370	+ 14	26	+ 1
	1. SCOTLAND, EAST	3	3	2 less	80	+11	9·3	− 0·8	36	− 2	32	− 3	401	− 7	28	0
	2. ENGLAND, N.E.	3	2	2 less	78	+11	8·1	+ 0·2	41	+ 3	38	+ 3	426	+ 22	29	+ 1
	3 ENGLAND, EAST	3	3	1 less	78	+12	9·2	+ 1·6	51	+ 7	48	+ 6	459	− 5	31	− 1
	4. MIDLAND COUNTIES	2	1	3 less	75	+13	10·2*	+ 1·5	44	+ 2	41	+ 1	432*	+ 6	29	0
	5. ENGLAND, SOUTH	1	less than ½	3 less	70	+ 9	11·3*	+ 1·9	53	+ 6	50	+ 5	479	− 6	32	− 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	2	4 less	83	+ 8	14·9	− 1·7	46	+ 8	42	+ 6	419	− 3	29	0
	7. ENGLAND, N.W.	2	1	4 less	86	+18	11·5	+ 1·3	48	+ 7	44	+ 4	425	+ 4	28	0
	8. ENGLAND, S.W.	1	less than ½	5 less	90	+22	17·4*	+ 4·7	46	− 1	43	− 2	450	− 71	30	− 5
	9. IRELAND, NORTH	3	1	4 less	95	+16	13·8*	+ 1·8	26	−13	24	−12	389	− 19	27	− 1
	10. IRELAND, SOUTH	1	less than ½	6 less	87	+14	16·1	+ 2·6	33	−10	31	−10	427	− 53	29	− 4
	—CHANNEL ISLANDS	0	—	4 less	94	+19	14·7	+ 3·7	65	+16	62	+13	485	− 78	34	− 5

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was fair, dry, and cold over the Kingdom as a whole. Slight showers of sleet, graupel, and cold rain were, however, of frequent occurrence in the extreme north during the greater part of the week, and extended at times to the more southern and eastern stations. Towards the end of the period the condition became fine, dry, and much warmer in all parts of the country.

Temperature was much below the mean, the deficit ranging from 3° in Ireland and the Channel Islands, to 5° in Scotland N., the Midland counties, and England E. The highest of the maxima were registered on the 15th, when they varied from 65° in Scotland E., and England E. and S., to 58° in Ireland N. On the 12th and 13th the daily maxima were very low, being less than 50° at many of the inland stations. The absolute minima, which were recorded between the 11th and 13th, were very low for the time of year. They ranged from 25° in England S.W. (at Llandovery), 26° in Scotland W., and 27° in the Midland counties, to 32° in England N.E., and 37° in the Channel Islands. Sharp ground frosts were very general at night until nearly the end of the period.

Rainfall was less than the mean in all districts. Over the greater part of the Kingdom the fall was very slight, and at many individual stations in England, and some in Ireland, the weather was quite rainless.

Bright Sunshine exceeded the mean in most of the English districts and in Scotland W., but was deficient elsewhere. The percentage of the possible duration ranged from 62 in the Channel Islands, and 50 in England S., to 31 in Ireland S., and 24 in Ireland N. and Scotland N.

Barometer and Wind.—During the greater part of the week the barometer was highest off our western and south-western coasts, while depressions were observed over and to the eastward of the North Sea. The wind was consequently Northerly to North-Westerly, and occasionally blew strongly at the northern and north-eastern stations. By Friday, however, the anticyclone had moved eastwards and covered the south of England and north of France, and as a shallow depression had appeared off the north of Scotland, the wind became Westerly to South-Westerly. By the end of the week a large anticyclone stretched southwards and south-westwards from Scandinavia, embracing nearly the whole of our Islands, and the wind was shifting to the Eastward and North-Eastward very generally.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 109 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	53	32	44·4	35·4	39·6	− 5·1	7	23	5	0·31	−0·09	*	*	*	*
	Stornoway	53	35	47·1	37·6	42·1	− 4·4	19	12	5	0·26	−0·32	27·6	−13·7	24	−13
	Wick	60	32	48·3	36·9	42·3	− 4·4	24	14	6	0·42	+0·01	*	*	*	*
	Lairg Ⓢ	59	30	50·3	36·0	42·7	− 3·8	30	17	5	0·43	−0·07	*	*	*	*
	Glencarron Ⓢ	56	31	46·7	35·4	40·7	− 6·7	13	24	5	1·14	+0·14	*	*	*	*
	Fort Augustus Ⓢ	59	29	51·7	37·7	44·3	− 4·7	34	12	5	0·32	−0·18	25·5	− 2·4	23	− 4
	Fort William Ⓢ	54	31	49·1	39·6	44·1	− 5·3	25	7	3	0·23	−0·57	26·7	−11·0	24	−11
1. SCOTLAND, E.	Nairn	65	33	53·0	37·3	44·7	− 3·9	39	13	4	0·20	−0·17	*	*	*	*
	Aberdeen	57	33	50·4	38·7	44·2	− 3·5	29	9	5	0·59	+0·14	34·0	− 7·0	30	− 7
	Braemar Ⓢ	54	30	47·4	34·8	40·7	− 4·6	15	26	3	0·43	−0·09	34·7†	− 3·2†	31†	− 4†
	Ochtertyre Ⓢ	62	29	55·3	37·1	45·7	− 3·4	46	14	2	0·16	−0·34	*	*	*	*
	Leith	60	35	55·6	38·3	46·4	− 3·0	46	10	1	0·09	−0·26	*	*	*	*
	Marchmont Ⓢ	58	29	52·3	36·4	43·9	− 3·6	37	16	1	0·14	−0·40	45·8	+ 7·3	41	+ 4
2. ENGLAND, N.E.	Alnwick Castle	57	34	50·9	38·7	44·4	− 2·4	31	9	?	?	?	*		*	*
	Durham	64	32	53·9	35·8	44·3	− 3·8	42	17	3	0·27	−0·15	37·8	+ 1·6	34	+ 1
	Shields	56	32	51·9	38·1	44·6	− 3·0	35	11	2	0·17	−0·21	*	*	*	*
	Scarborough Ⓜ	56	34	50·1	38·2	43·8	− 4·7	29	10	4	0·32	−0·11	*	*	*	*
	York	63	32	55·0	37·7	45·8	− 4·1	45	12	4	0·17	−0·23	44·9	+ 5·2	41	+ 4
	Spurn Head	55	35	50·3	40·4	45·1	− 3·6	28	4	2	0·20	−0·14	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	63	35	55·1	38·6	46·4	− 3·5	45	10	2	0·23	−0·17	57·9	+13·4	54	+12
	Yarmouth	55	35	50·9	39·0	44·6	− 4·6	31	8	4	0·55	+0·17	*	*	*	*
	Geldeston	62	33	54·4	37·1	45·2	− 4·4	43	14	4	0·46	+0·09	52·7	+ 5·7	49	+ 4
	Cambridge	65	31	56·3	36·1	45·6	− 5·6	50	17	1	0·03	−0·37	49·8	+ 6·8	47	+ 7
	Rothamsted	61	31	54·2	36·6	44·9	− 5·1	43	15	2	0·13	−0·35	44·5	+ 2·7	42	+ 3
4. MIDLAND COUNTIES	Harrogate Ⓜ	56	31	52·1	35·2	43·1	− 5·8	36	19	3	0·12	?	49·8	?	46	?
	Bawtry (Hesley Hall)	58	31	53·4	37·3	44·9	− 6·1	40	13	3	0·12	−0·29	*	*	*	*
	Loughborough	62	31	54·4	37·1	45·2	− 6·2	43	14	2	0·16	−0·26	*	*	*	*
	Stamford (Duddington)	64	32	55·0	36·9	45·4	− 5·4	45	14	2	0·04	−0·44	*	*	*	*
	Cheadle Ⓜ	58	30	50·8	36·5	43·2	− 5·6	32	15	2	0·32	−0·18	*	*	*	*
	Shirley (near Solihull)	61	31	53·2	36·5	44·4	− 6·0	40	15	4	0·34	?	*	*	*	*
	Churchstoke Ⓜ	60	27	53·8	34·9	43·8	− 4·8	42	20	2	0·04	−0·43	43·8	+ 3·8	41	+ 3
	Hereford Ⓜ	64	32	57·0	36·3	46·0	− 4·6	52	16	1	0·04	−0·41	*	*	*	*
	Cirencester	61	32	54·9	36·9	45·4	− 4·0	45	14	1	0·12	−0·34	46·4	+ 2·9	43	+ 2
	Oxford	64	32	55·4	38·4	46·4	− 4·7	46	10	1	0·03	−0·36	44·8	+ 2·9	42	+ 2
5. ENGLAND, S.	London	65	32	56·3	38·9	47·1	− 5·2	49	9	1	0·01	−0·38	44·6†	+ 6·4†	42†	+ 6†
	North Foreland	58	37	54·0	41·1	47·2	− 2·5	40	3	2	0·03	?	*	*	*	*
	Dungeness	59	32	54·9	38·7	46·3	− 4·4	44	9	2	0·04	−0·30	*	*	*	*
	Hastings (St. Leonards)	59	36	55·1	40·9	47·6	− 3·6	44	3	0	—	−0·36	52·5	+ 2·3	49	+ 1
	Southampton	63	31	59·0	40·2	49·0	− 3·3	57	5	1	0·01	−0·39	53·0	+ 6·5	50	+ 5
	Hurst Castle	63	34	56·4	41·7	48·6	− 3·0	47	1	1	0·04	−0·31	*	*	*	*
	Shaftesbury Ⓜ	59	34	54·1	38·3	45·7	− 4·3	41	10	0	—	−0·53	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	59	32	50·4	38·4	44·0	− 5·6	29	10	6	0·33	−0·49	*	*	*	*
	Glasgow	56	33	52·3	39·4	45·5	− 3·3	35	7	1	0·17	−0·31	43·5	+ 9·0	39	+ 7
	Ardrossan	57	37	53·3	41·1	46·8	− 2·3	37	3	3	0·13	−0·34	*	*	*	*
	Glenlee Ⓢ	58	96	53·4	36·4	44·0	− 4·5	38	16	3	0·13	−0·49	*	*	*	*
	Gilcrux (Cumberland)	59	32	52·4	37·8	44·7	− 4·3	37	12	5	0·30	?	40·6	?	37	?
	Douglas Isle of Man	56	34	52·9	39·7	45·9	− 3·3	37	6	1	0·05	−0·42	54·7	+ 6·9	50	+ 5
7. ENGLAND, N.W.	Stonyhurst	60	33	51·3	39·2	44·9	− 4·4	32	8	4	0·12	−0·45	43·3	+ 3·3	40	+ 2
	Blackpool Ⓜ	62	33	54·3	40·7	47·1	− 2·7	41	4	1	0·06	−0·34	50·7	+10·6	46	+ 7
	Manchester (Prestwich)	58	31	50·2	37·6	43·5	− 5·8	29	12	3	0·24	−0·25	36·1	?	33	?
	Liverpool Obsy. (Bidston)	64	36	53·4	40·9	46·8	− 4·1	38	3	1	0·03	−0·33	*	*	*	*
	Llandudno Ⓜ	57	40	52·8	42·7	47·5	− 3·4	39	0	0	—	−0·39	*	*	*	*
	Holyhead	59	38	51·7	41·6	46·4	− 4·1	32	1	0	—	−0·40	*	*	*	*
8. ENGLAND, S.W.	Llandovery	63	25	56·3	34·4	44·7	− 5·7	51	21	0	—	−0·58	*	*	*	*
	Pembroke	56	40	51·1	43·3	47·0	− 2·7	35	0	0	—	−0·40	41·8	− 6·2	39	− 6
	Clifton												*	*	*	*
	Arlington (N. Devon)	58	33	52·6	39·7	45·8	− 3·8	36	6	1	0·05	−0·53	*	*	*	*
	Cullompton Ⓜ	61	36	56·5	40·6	48·1	− 3·1	49	4	1	0·01	−0·50	40·6	− 1·4	38	− 4
	Falmouth	57	37	53·3	43·0	47·8	− 2·5	41	0	1	0·03	−0·57	52·1	+ 3·1	49	+ 2
	Plymouth	60	37	53·7	42·8	47·9	− 4·7	41	0	0	—	−0·45	48·3	+ 2·1	46	+ 1
	Prawle Point	61	36	56·0	40·7	47·9	− 2·3	47	4	0	—	−0·31	*	*	*	*
9. IRELAND, N.	Malin Head	57	39	49·9	42·9	46·2	− 3·0	29	0	3	0·08	?	*	*	*	*
	Londonderry	58	38	52·7	41·3	46·7	− 3·8	36	2	3	0·08	−0·40	*	*	*	*
	Edenfel (Omagh)	57	36	51·3	39·9	45·3	− 3·2	32	6	3	0·08	−0·42	*	*	*	*
	Belmullet	58	38	53·1	42·7	47·6	− 2·9	39	0	1	0·06	−0·50	*	*	*	*
	Markree Castle	56	31	52·6	40·5	46·2	− 2·5	36	4	4	0·19	−0·33	23·1	−16·9	21	−17
	Armagh	57	35	53·1	39·3	45·8	− 3·4	38	8	2	0·03	−0·45	28·2	−10·1	26	−10
	Donaghadee	57	35	53·4	40·3	46·5	− 2·7	39	5	2	0·09	−0·39	*	*	*	*
	Edgeworthstown	58	32	53·2	38·4	45·4	− 4·1	39	10	2	0·03	−0·51	*	*	*	*
10. IRELAND, S.	Dublin	59	37	55·2	42·1	48·3	− 0·4	44	0	0	—	−0·48	32·6	−12·6	30	−13
	Parsonstown	59	33	54·9	40·9	47·5	− 2·8	43	3	2	0·03	−0·49	30·2	− 9·8	28	−10
	Kilkenny	59	35	54·6	41·1	47·5	− 3·0	42	3	0	—	−0·48	*	*	*	*
	Roche's Point	57	40	54·1	45.1	49·3	− 2·4	51	0	0	—	−0·69	*	*	*	*
	Valencia	60	37	53·7	43·9	48·5	− 3·2	46	0	1	0·05	−0·70	36·0	− 8·9	34	− 9
	Killarney	61	30	54·1	41·9	47·6	− 3·5	40	0	0	—	?	*	*	*	*
	Foynes	?	?	?	?	?	?	?	?	0	—	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	58	42	54·4	44·1	48·9	− 2·7	48	0	0	—	−0·38	56·0	?	53	?
	Jersey	63	37	56·1	43·6	49·5	− 3·2	53	0	0	—	−0·40	73·8	+16·8	69	+14

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

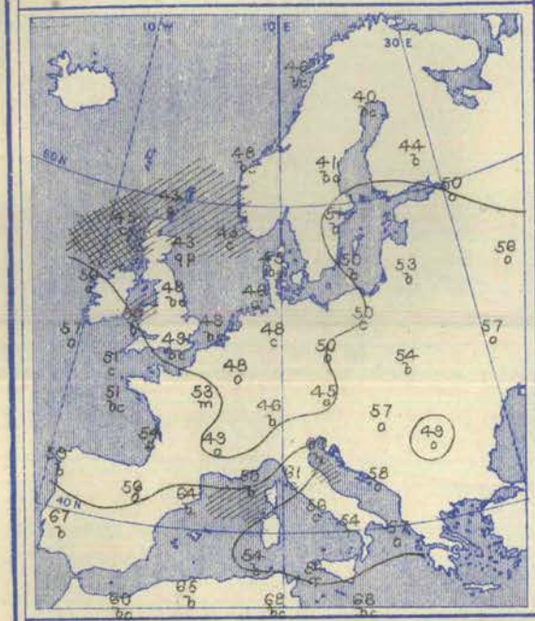
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 9th May.

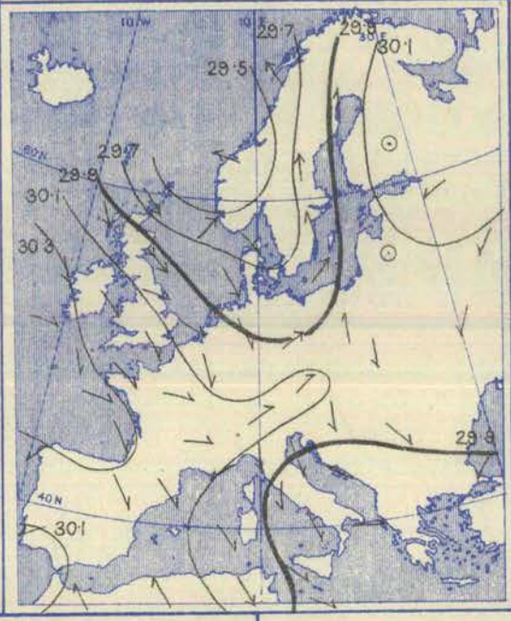
Temperature and Weather.

8 a.m.

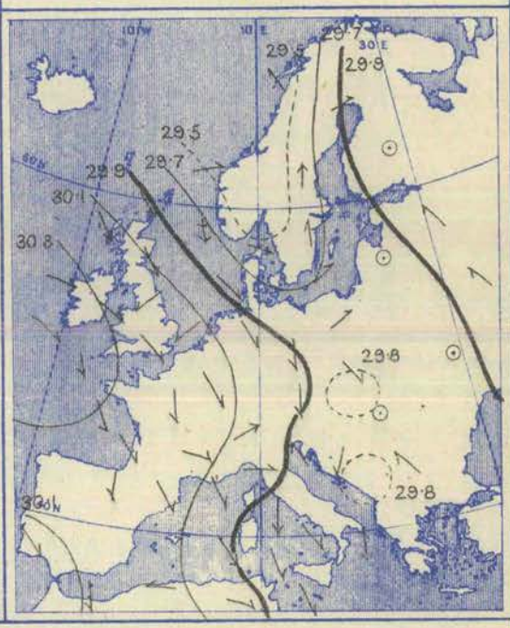


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the greater part of England and Ireland, the west of France, and the Mediterranean, also over many parts of Russia and northern Europe; cloudy and showery over Scotland and some parts of Scandinavia; dull over Germany. Rain falling later over Sweden, the Baltic, and north Germany, but not in very large quantities, some showers over Scotland also, and in the extreme north and west of Ireland —very fine over England and France.

Temperature in morning highest, 68° at Sfax, 65° at Algiers, 64° at Barcelona, 61° at Perpignan and Leghorn; 53° to 50° on many parts of our western and south-western coasts, 56° at Moscow, 50° at St. Petersburg. Lowest, 40° at Haparanda, 43° at Sumburgh Head and Aberdeen, 45° at Stornoway, 42° at Munich, 45° at Cracow. Rising later to between 55° and 63° at several of our own stations, to 62° at Paris, 70° to 75° in the south of France, 73° at Cagliari, and to more than 80° at Tunis.

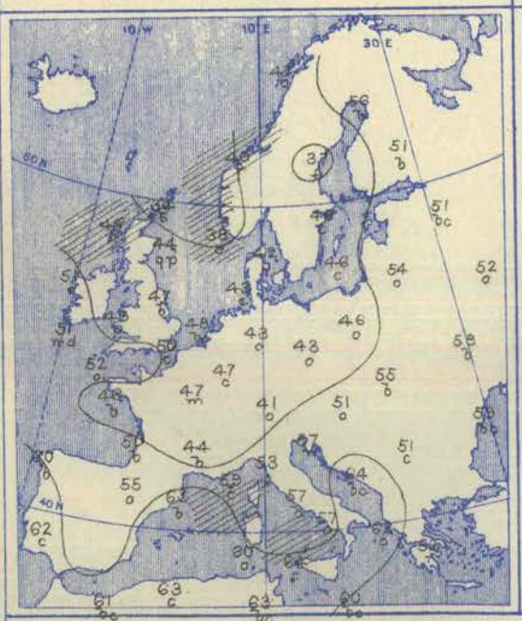
Wind North-Westerly over our Islands, the Bay of Biscay, and the North Sea, and blowing a gale in the east of Scotland, but Southerly over the Baltic and Sweden; very light and variable over Russia and central Europe; Northerly to North-Westerly and light over the Mediterranean. The North-Westerly wind moderating on our north-east coasts towards night, and falling quite light at our western stations.

Barometer highest, 30·3 ins. and more over the south-western half of Ireland and the Bay of Biscay, and exceeding 30·1 ins. over all the western and southern parts of our Islands, and over France, as well as over the northern parts of Russia. Lowest, about 29·4 ins. to 29·5 ins. in a disturbance over the west of Norway and neighbouring parts of the Atlantic. Rising over our Islands later, but giving way over the northern half of Russia.

Monday, 10th May.

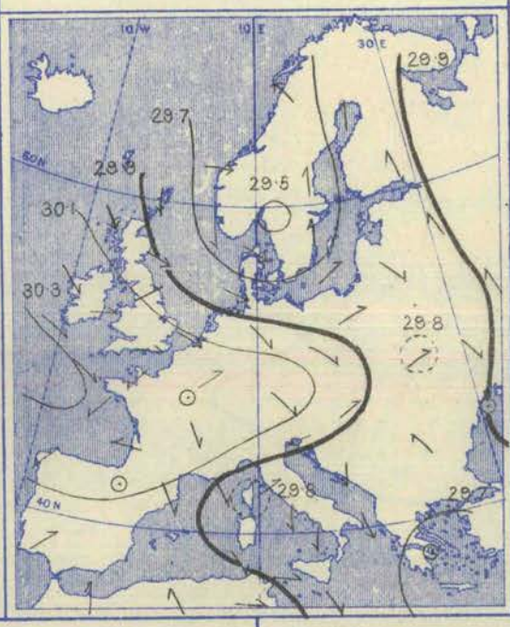
Temperature and Weather.

8 a.m.

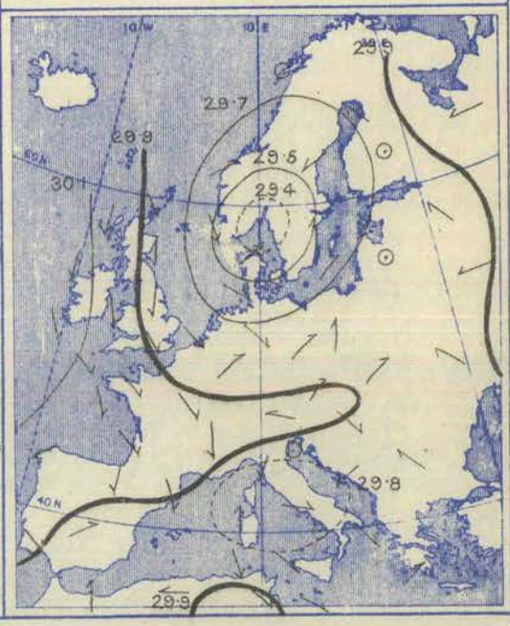


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the southern half of our Islands and the greater part of France, as well as over Finland and several parts of Russia, south-eastern Europe, and the Mediterranean. Cloudy and unsettled over Scandinavia, Scotland, Denmark, and Germany, with rain in several places. A good deal of snow and graupel later over the north-eastern parts of Great Britain, and rain over Germany, the Baltic, and south of Scandinavia.

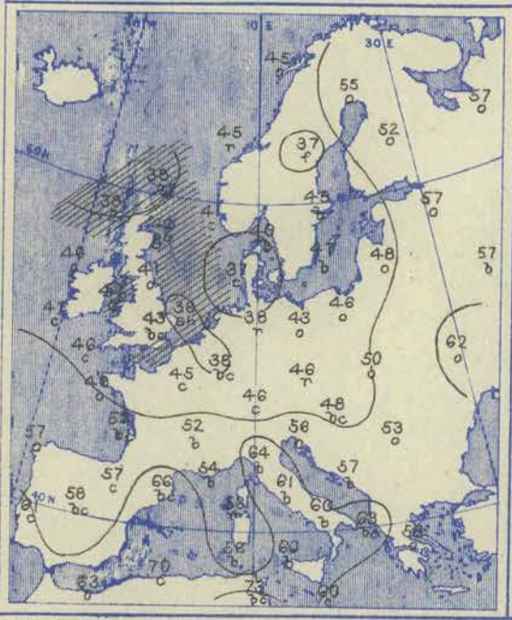
Temperature falling at our northern stations and over France. Morning readings highest, (1) 64° to 60° at several of the Mediterranean and Adriatic stations, 55° at Biarritz and Jersey, and 53° to 50° on our south-west coasts; (2) 50° to 52° at the Russian stations, 56° at Uleaborg. Lowest, 34° at Sumburgh Head, 38° at Skudesnaes, 41° at Copenhagen and Munich, 44° at Aberdeen, 45° at Wiesbaden. Failing to reach 60° at any of our own stations later, but touching 62° at Paris, 70° at Nice and Rochefort. Succeeding night very cold over Great Britain

Wind (1) North-Westerly to Westerly over the British Islands and North Sea, Westerly over north Germany, Southerly over Finland and on the Swedish coasts; (2) light and anticyclonic over France and the Bay of Biscay; (3) moderate, but cyclonic, over the Mediterranean. Increasing greatly in force from North-West and North over our Islands later, and over the North Sea.

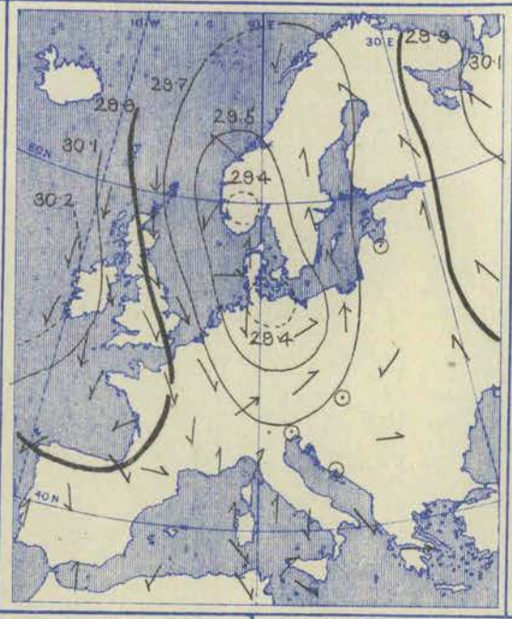
Barometer highest, (1) 30·2 ins. and more to 30·0 ins. in an anticyclone and "ridge" stretching in from the Atlantic over Ireland, England, the Bay of Biscay, Spain, France, and south Germany; (2) exceeding 29·9 ins. over Russia. Lowest, 29·5 ins. to 29·6 ins. in an elongated and complex depression lying over Scandinavia; and below 29·8 ins. in three others—one over the northern part of the Mediterranean, another over the south of Italy, Herzegovinia, and Albania, and a third near Cracow. The Scandinavian depression moving southwards later, and secondary disturbances appearing over the British Islands and the North Sea.

Tuesday, 11th May.

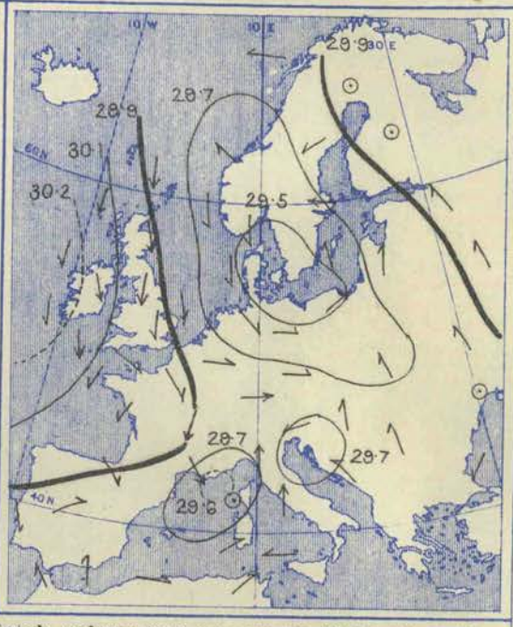
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning still fine over the western and southern parts of our Islands, the whole of France, and the Mediterranean, as well as over south-eastern Europe and the greater part of Russia; cloudy, squally, and unsettled over Scotland, the North Sea, Germany, and Norway, with rain in many places; wet snow and hail at Yarmouth. Considerable falls of rain occurring later over the east of France, Germany, the Baltic, and Scandinavia; wet snow and graupel over Scotland, the north of England, and our east coast.

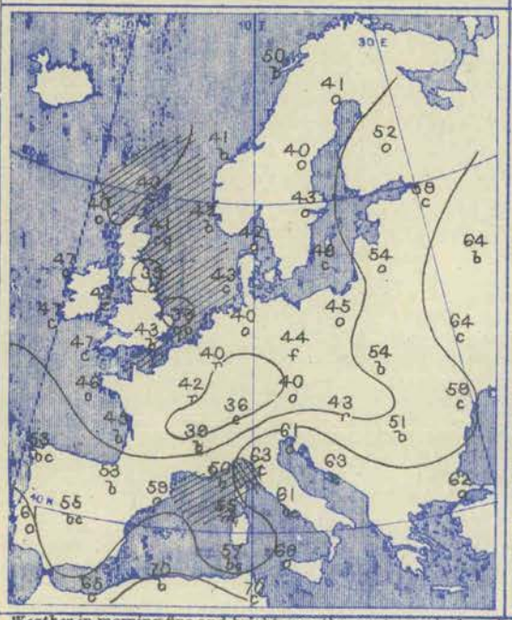
Temperature falling unsteadily over the United Kingdom and north of France; rising over Germany, Russia, and Sweden. Morning readings highest, (1) 73° at Sfax, 70° at Algiers, and exceeding 60° at many of the Mediterranean stations and at Lisbon; (2) 62° at Kiev, 57° at Kharkov, Moscow, St. Petersburg, and Archangel, 55° at Uleaborg. Lowest, 37° at Fanö and Hernösand, 38° at Cuxhaven, 39° at Copenhagen, Sumburgh Head, and Stornoway, 41° at Shields. Not exceeding 56° at any of our own stations later, and hardly touching 50° over Germany, but rising to 64° at Lorient, and 73° at Perpignan.

Wind Northerly and North-Westerly moderate to a gale over the British Islands, the Netherlands, and north of France, but Southerly moderate over Germany and the Baltic, and South-Easterly over northern Europe; very variable over Denmark and the south of Norway. Blowing hard from North-West in the east of Scotland later, and very strongly both over the Irish Sea and the North Sea.

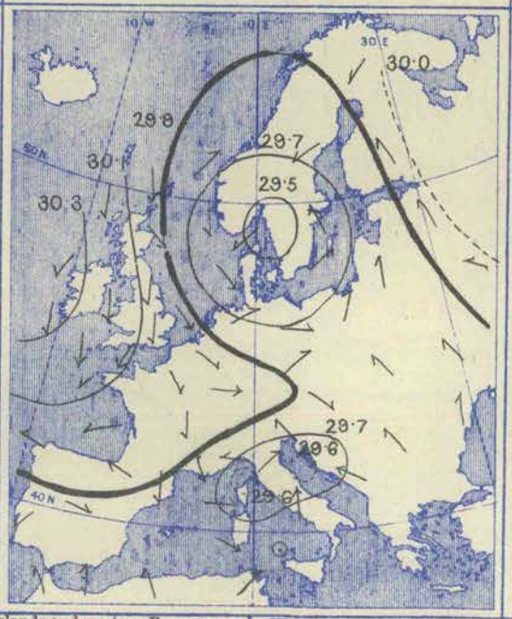
Barometer highest, (1) 29·9 ins. to 30·2 ins. and more over the western parts of our Islands and France, and evidently still higher over the neighbouring parts of the Atlantic; (2) 29·9 ins. to 30·1 ins and more over Russia. Lowest, 29·4 ins. and less to 29·5 ins. in a complex depression lying over the eastern shores of the North Sea. Gradients rather steep over the British Islands. Rising later over western Europe generally; falling over Denmark and north Germany.

Wednesday, 12th May.

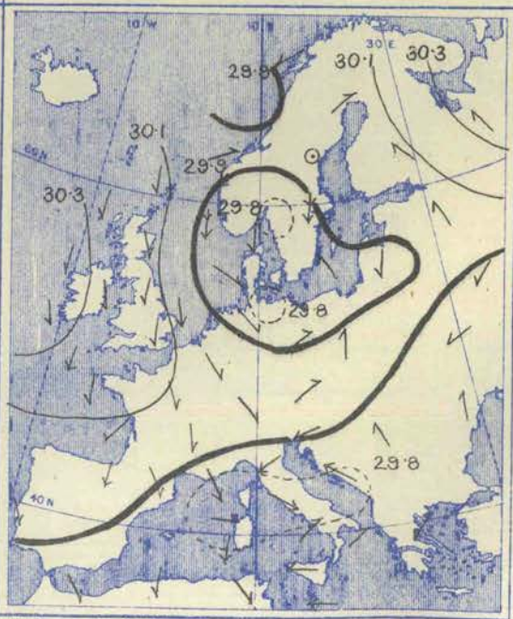
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of our Islands and western Europe, as well as over the southern half of the Mediterranean; cloudy or overcast in most other places, with rain over Belgium and the north-east of France, and in the south of Sweden, and cold showers at some of our eastern stations. Rainy over Austria also. Considerable falls reported later at the German and Swedish stations, and at Yarmouth; very slight showers in some parts of Scotland.

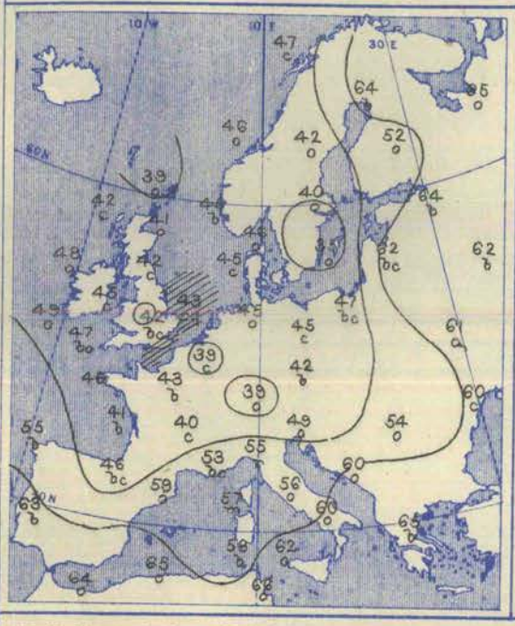
Temperature falling rapidly over the southern parts of France, slowly over the British Islands and Germany, but rising over Russia. Morning readings highest, 70° at Sfax and Algiers, and exceeding 60° over the north of Italy, as well as at Lesina and Trieste, and over many of the central and southern parts of Russia; 59° at St. Petersburgh, 52° at Kuopio, 50° at Bodö. Lowest, 34° at Belfort, 36° at Munich, 39° at Vienna and Lyons, and at Shields, Nairn, and Karlstad, 40° at Brussels, Oxford, and Sumburgh Head. Scarcely exceeding 50° over England and Ireland during day, but touching 55° at Jersey and Berlin, as well as at the Scaw and Bodö, 57° in the south-west of France, 66° at Nice. Sharp frost over England at night.

Wind (1) Northerly to North-Westerly over the British Islands and the North Sea, moderate to strong in force, South-Westerly to Southerly in north Germany, South-Easterly to North-Easterly over Finland and the northern half of Sweden; (2) Northerly and variable over France, North-Easterly and variable over Spain; (3) a complex, but well-marked, cyclonic circulation prevailing over the northern parts of the Mediterranean, Italy, and the Adriatic, and a feebler one over Transylvania. The Northerly wind in our Islands decreasing in force during day.

Barometer highest, (1) 30·3 ins. and more to 30·0 ins. over the British Islands, the greater part of France, and all the neighbouring parts of the Atlantic; (2) 30·0 ins. and more over northern and central parts of Russia. Lowest, about 29·4 ins. to 29·5 ins. in a depression lying over the southern parts of Sweden, and 29·6 ins. to 29·8 ins. in a very complex system over southern and south-eastern Europe. The northern depression beginning to fill up later, and barometer rising over the whole of western Europe.

Thursday, 13th May.

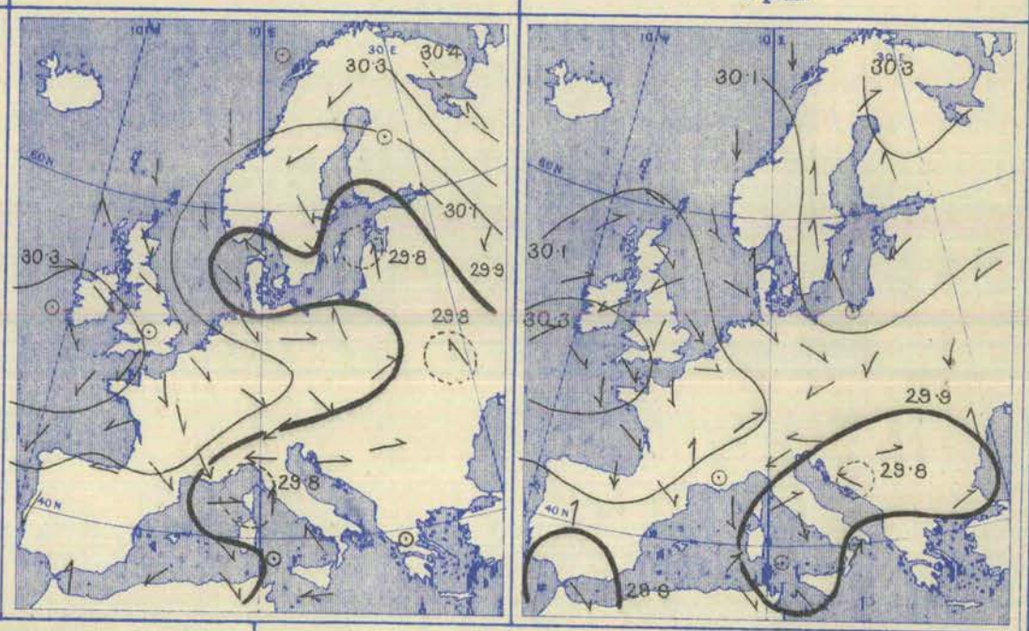
Temperature and Weather. 8 a.m.



Weather in morning fine and bright in most places, but cloudy or dull in Scandinavia, as well as at most of the Mediterranean stations, with rain in some parts of Italy and snow at Brussels. Rain falling later in Ireland and Scotland, and also over Scandinavia. Lightning observed in London.

Temperature fallen over the south of France and Italy, risen a little over our Islands, but changed very irregularly elsewhere. Morning readings highest, (1) 66° at Sfax, 65° at Algiers and Athens, and 64° at Oran; (2) 65° at Archangel, 64° at Ulealborg and St. Petersburg, and 62° at Riga; (3) 63° at Lisbon, 59° at Barcelona, and 58° at Nice and Perpignan. Lowest, (1) 35° at Wisby, 38° at Cracow and Belfort, 39° at Le Mans; (2) 38° at Oxford and 39° at Sumburgh Head. Slightly exceeding 50° over England and Ireland during day, but reaching 72° at Lisbon, 66° at Rochefort, and 63° at Perpignan. Sharp frost over south-east of England at night.

Barometer and Wind. 8 a.m. and 6 p.m.

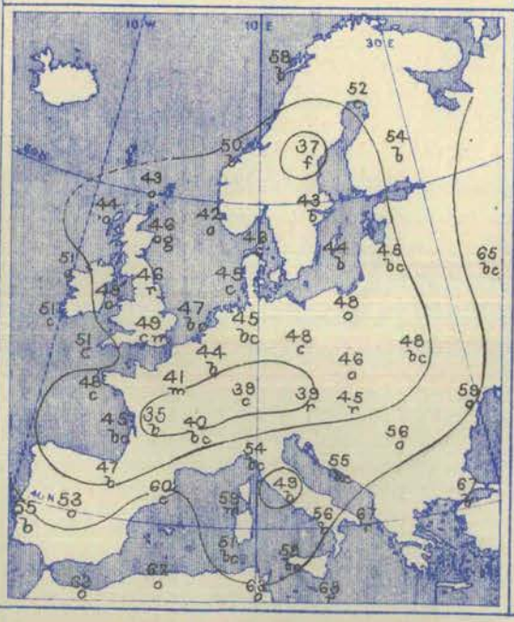


Wind North-Westerly, light over the North Sea and Great Britain. Very variable over the Continent generally, with cyclonic circulations over Denmark and the Baltic, and also over the Gulf of Genoa. Wind backing to the South-Westward on our west and north-west coasts later, but remaining light or moderate in force.

Barometer falling a little on our extreme north-west coasts, but rising elsewhere. Highest, (1) 30·4 ins. and more over the north of Russia; (2) 30·3 ins. and more over the western and south-western parts of the United Kingdom and the north-western parts of France. Lowest, about 29·8 ins. in a depression over Denmark and the Baltic, and also over the Gulf of Genoa. Barometer falling rather more decidedly in the north-west later, and shallow depressions beginning to approach the Atlantic coasts of Great Britain.

Friday, 14th May.

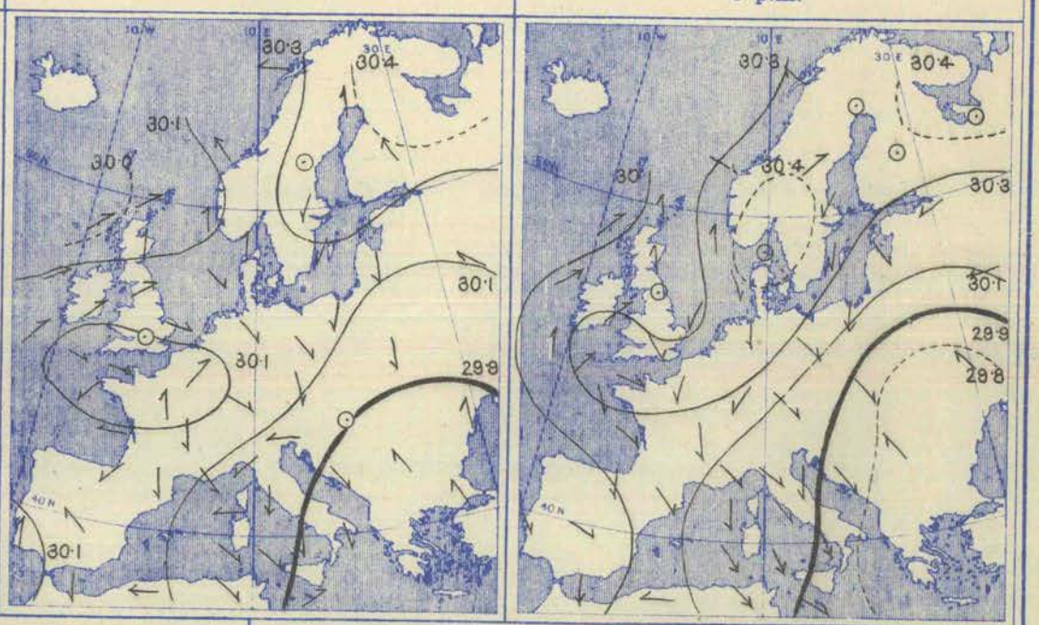
Temperature and Weather. 8 a.m.



Weather in morning still fine and bright over northern Europe, the North Sea, France, and the south and east of England; fine and bright over the Mediterranean and the south of France also. Cloudy or overcast elsewhere, very rainy over Austria and the south of Russia, and rather rainy in some parts of England. Heavy rain falling later at Munich, but very small quantities over the northern parts of Great Britain.

Temperature inclined to increase over the British Islands and their neighbourhood, and to decrease over Italy and the Adriatic. Morning readings highest, 67° at Constantinople and Brindisi, and rather above 60° on the southern and western coasts of the Mediterranean; 65° at Moscow, 54° at Kuopio, and 58° at Bodö; 50° to 52° on the extreme southern and western coasts of our Islands, 51° at Nairn. Lowest, 35° at Limoges, 39° at Munich and Vienna, 37° at Münster, as well as at Hernösand. Failing to reach 60° over nearly the whole of our Islands, but touching 59° at Paris, 61° at Nice, 66° at Biarritz.

Barometer and Wind. 8 a.m. and 6 p.m.

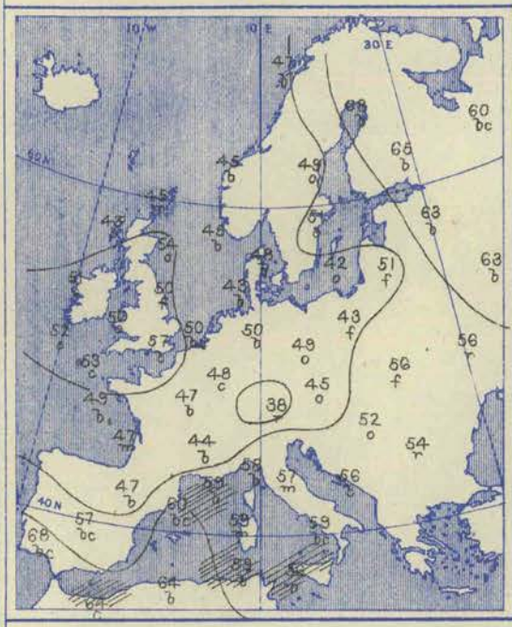


Wind (1) light to moderate from between South-West and West on the Irish and Scotch coasts, and from between South and East at the Norwegian stations; (2) Northerly over the Baltic and the greater part of central Europe, North-Easterly to North-Westerly over the Mediterranean; (3) very light and variable (anticyclonic) over the greater part of England, the Netherlands, and France, as well as over northern Europe. No decided change later.

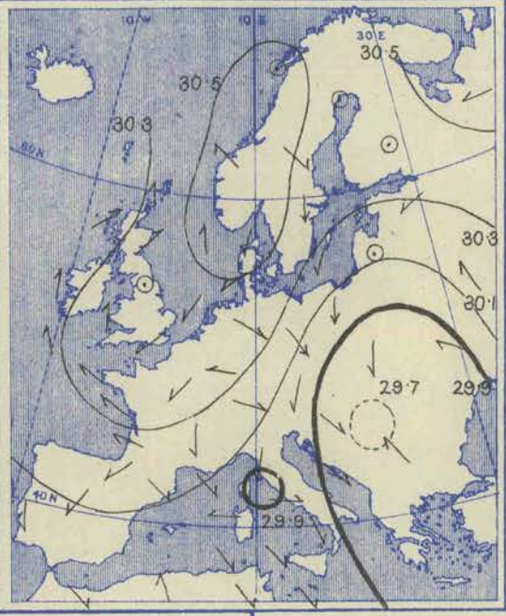
Barometer highest, (1) 30·4 ins. and more to 30·2 ins. in an anticyclone over northern Europe, 30·3 ins. and more to 30·2 ins. in another over France, England, and the south of Ireland. Lowest, 29·9 ins. and less to 30·0 ins. over the whole of south-eastern Europe, and below 30·0 ins. over the Hebrides, the Faroe Isles, and neighbouring parts of the Atlantic. Rising slightly over the British Islands later, and quickly over Scandinavia.

Saturday, 15th May.

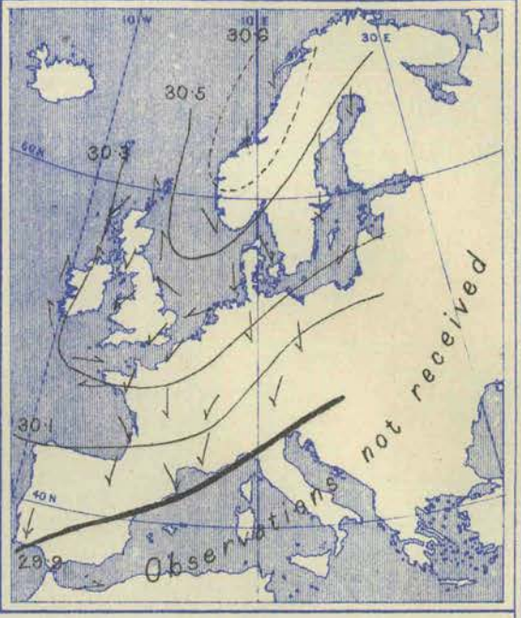
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Norway, the North Sea, the eastern and southern parts of Great Britain, as well as over France, Spain, the Mediterranean, and the northern parts of Russia; dull in the extreme west and north-west of our Islands, dull, misty, and rainy over central Europe. Rain later over Germany and some parts of Sweden, as well as in the Azores. Weather very fine over the British Islands and France, with some fog in places.

Temperature risen decidedly over our Islands, France, and central Europe. Morning readings highest, (1) 68° at Lisbon, 64° at Algiers, 57° to 50° over central England, 57° at Nairn, 56° to 50° over south-eastern Europe; 68° to 60° over Finland and the north of Russia. Lowest, (1) 43° at Stornoway, 45° at Skudesnaes, 47° at Bodö; (2) 45° to 42° at several of the German and Austrian stations, 41° at Belfort, 38° at Munich. Rising later to between 60° and 65° in many parts of our Islands, to 66° at Paris, and 70° at Perpignan. Touching 79° at Haparanda.

Wind moderate from the Southward on our western and northern coasts, nearly calm over the greater part of England; North-Easterly to North-Westerly over most of Continental Europe, but South-Easterly over Russia. Becoming North-Easterly over the Channel and south of England later.

Barometer highest, 30·5 ins. and more over Norway, and exceeding 30·3 ins. in a high-pressure system covering the whole of Scandinavia, the British Islands, the Netherlands, and all but the southern parts of France. Lowest, below 29·8 ins. in a large low-pressure system covering south-eastern Europe, and below 29·9 ins. in a small disturbance near Leghorn; below 30·0 ins. over the south-west of Spain. Beginning to fall later over France and the south-east of England; rising in the north and west.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the early part of the week, barometrical pressure was highest in an anticyclone lying off our own western coasts, and relatively high also over northern Russia. Over our Islands and the northern parts of the Continent as a whole the weather was influenced by a large and somewhat complex depression, the centre of which travelled in a south-south-easterly direction across Norway to Denmark, where it gradually dispersed. The movement of this system was accompanied by strong Northerly and North-Westerly winds over our Islands and the North Sea, with a gale in the north and east of Scotland, and by frequent showers of cold rain or sleet. Temperature was very low for the time of year, with sharp night frosts in many places, especially over the central and southern parts of England.

After the 12th, however, the anticyclone off our west coasts spread eastwards, and finally united with the high-pressure area over northern Europe, the central portion of the combined system being located over Scandinavia or northern Russia. The winds over our Islands now became rather variable and the weather showed a gradual improvement, but temperature remained decidedly low, especially at night. At the close of the week a very dry current of wind from the North-Eastward was setting in over the greater part of western and northern Europe.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 110.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	29·6	− 5·3	27	− 5	EASTBOURNE	52·2	+ 4·2	49	+ 3
OSWALDKIRK (Yorkshire)					VENTNOR	62·9	?	59	?
WORKSOP	41·0	+ 4·5	38	+ 4	SOUTHPORT	60·4	?	55	?
THURCASTON (Leicestershire)	35·7	− 3·1	33	− 4	COLWYN BAY	49·0	?	45	?
MARGATE	53·4	+11·3	50	+11	NEWQUAY	46·0	0·0	43	0
WESTBOURNE (Sussex)	52·1*	+ 2·3	49*	+ 2	TORQUAY	46·1*	− 0·4	44*	− 1
BRIGHTON	54·7	+ 7·4	51	+ 6	GUERNSEY	67·3*	+11·3	64*	+ 9

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIV. No. 20.] *Third Series.* WEEK ENDING SATURDAY, MAY 22ND, 1897. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95 only.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 116.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	71	33	57·2	39·7	48·0	0 (average)	52	+10	6	0	290	- 13	615	+ 5
	1. SCOTLAND, EAST	69	32	57.9	38·7	47·7	2 below	54	+ 2	9	+ 4	363	- 25	657	+ 14
	2. ENGLAND, N.E.	68	26	52·8	41·2	46·7	3 below	36	-16	2	- 1	390	+ 13	471	- 74
	3. ENGLAND, EAST	69	34	59·6	43·3	50·9	1 below	62	- 4	0	- 4	517	+ 25	493	-118
	4. MIDLAND COUNTIES	71	35	63·3	41·4	51·7	0 (average)	70	+ 2	2	- 2	523	- 2	503	-112
	5. ENGLAND, SOUTH	79	37	64·3	46·1	54·7	2 above	89	+16	0	- 1	592	+ 38	297	-177
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	70	27	64·1	41·0	51·9	2 above	74	+17	3	0	389	- 31	441	- 17
	7. ENGLAND, N.W.	70	32	62·4	42·7	52.0	1 above	70	+10	0	- 3	435	+ 3	367	- 88
	8. ENGLAND, S.W.	74	36	65·9	47·6	56·2	4 above	99	+34	0	- 1	603	+ 46	223	-137
	9. IRELAND, NORTH	76	36	64·2	42·7	52·9	3 above	76	+17	0	- 2	444	- 52	403	+ 11
	10. IRELAND, SOUTH	74	36	66·1	44·9	54·8	3 above	90	+25	0	- 1	635	+ 15	242	- 55
	—CHANNEL ISLANDS	67	48	61·0	49·6	55·0	2 above	78	+ 6	0	0	789	+123	68	- 80

Rainfall.

	DISTRICTS. (See p. 116.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	0	—	6 less	91	- 2	15·9	- 2·0
	1. SCOTLAND, EAST	0	—	5 less	80	+ 6	9·3	- 1·3
	2. ENGLAND, N.E.	0	—	5 less	78	+ 7	8·1	- 0.2
	3 ENGLAND, EAST	0	—	5 less	78	+ 9	9·2	+ 1·1
	4. MIDLAND COUNTIES	0	—	5 less	75	+ 9	10·2	+ 1·0
	5. ENGLAND, SOUTH	1	1	4 less	71	+ 7	11·4	+ 1·6
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	0	—	7 less	83	+ 4	14·9	- 2·4
	7. ENGLAND, N.W.	0	—	5 less	86	+14	11·5	+ 0·8
	8. ENGLAND, S.W.	1	less than ½	5 less	91	+19	17·4	+ 4·2
	9. IRELAND, NORTH	0	—	6 less	95	+11	13·8	+ 1·3
	10. IRELAND, SOUTH	0	—	6 less	87	+10	16·1	+ 2·0
	—CHANNEL ISLANDS	3	2	3 less	97	+19	14·9	+ 3·4

Bright Sunshine.

	DISTRICTS. (See p. 116.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	86	+50	74	+42	456	+ 63	29	+ 4
	1. SCOTLAND, EAST	68	+28	59	+23	469	+ 21	30	+ 1
	2. ENGLAND, N.E.	70	+30	62	+26	498*	+ 54	32	+ 4
	3 ENGLAND, EAST	81	+35	74	+31	540	+ 30	34	+ 2
	4. MIDLAND COUNTIES	82	+42	74	+37	514	+ 48	33	+ 3
	5. ENGLAND, SOUTH	78	+31	72	+26	557	+ 24	35	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	90	+44	79	+37	509	+ 41	32	+ 3
	7. ENGLAND, N.W.	93	+53	83	+46	518	+ 56	32	+ 3
	8. ENGLAND, S.W.	80	+32	74	+29	530	- 39	34	- 2
	9. IRELAND, NORTH	93	+52	83	+46	482	+ 34	31	+ 2
	10. IRELAND, SOUTH	87	+43	78	+37	514	- 10	33	0
	—CHANNEL ISLANDS	65	0	60	0	550	- 78	35	- 5

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was unusually fine and dry throughout the period over the Kingdom as a whole, but a little rain was experienced in the extreme south and south-east at the commencement of the week, and a good deal of cloud prevailed at times at our north-eastern coast stations.

Temperature was above the mean over all the western half of our Islands, as well as in England S., but was only just equal to it in Scotland N. and the Midland counties, while in Scotland E. and England E. and N.E. it continued below the normal. The highest of the maxima, which were registered either on the 17th or 18th, were as high as 79° in England S., 76° in Ireland N., 74° in England S.W. and Ireland S., and ranged elsewhere from 71° in Scotland N. and the Midland counties to 67° in the Channel Islands. At our north-eastern coast stations, however, the daily maxima were very low, being frequently less than 50°. The absolute minima were recorded on rather irregular dates, and were very low for the time of year. In Scotland W. the sheltered thermometer fell to 27°, and in England N.W. and Scotland E. to 32°, while elsewhere they ranged from 33° in Scotland N. to 37° in England S. and to 48° in the Channel Islands. Occasional sharp frosts occurred on the grass at all the inland stations.

Rainfall was entirely absent from the Kingdom as a whole, but some slight local falls took place in the Channel Islands and parts of England S.

Bright Sunshine was unusually prevalent over most parts of the Kingdom, and greatly exceeded the mean in all districts except the Channel Islands. The percentage of the possible duration ranged from 83 in England N.W. and Ireland N., and 79 in Scotland W. to 62 in England N.E., 60 in the Channel Islands, and to 59 in Scotland E. The highest percentages of the possible amount recorded at individual stations were 87 at Gilcrux, and 86 at Stonyhurst.

Barometer and Wind.—Throughout the whole of the period an anticyclone was established over the more northern parts of our Islands and Norway, and the only depressions observed in our immediate neighbourhood were some shallow systems over France. North-Easterly and Easterly winds were consequently general over our Islands, and blew freshly or rather strongly at times on our south-eastern and southern coasts.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 115 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Averages for the Week. Of Lowest each day.	Averages for the Week. For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Accumulated Heat for the Week (in Day-degrees). Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	56	40	50·4	41·1	45·5	− 0·1	28	3	0	—	−0·42	*	*	*	*
	Stornoway	62	39	54·4	40·9	47·3	− 0·2	42	3	0	—	−0·60	87·5	+45·7	75	+39
	Wick	59	39	53·4	41·0	46·8	− 0·7	38	3	0	—	−0·40	*	*	*	*
	Lairg §	70	33	60·6	38·1	48·7	+ 1·2	63	11	0	—	−0·50	*	*	*	*
	Glencarron §	68	35	61·3	37·7	48·8	+ 0·3	66	12	0	—	−1·10	*	*	*	*
	Fort Augustus §	71	33	55·9	39·0	46·9	− 2·8	47	8	0	—	−0·45	72·6	+44·6	63	+37
	Fort William §	71	37	64·4	40·4	51·7	+ 1·3	75	4	0	—	−0·80	96·3	+58·1	84	+50
1. SCOTLAND, E.	Nairn	67	33	56·0	39·7	47·4	− 2·3	47	6	0	—	−0·40	*	*	*	*
	Aberdeen	60	38	53·1	41·0	46·7	− 2·2	37	3	0	—	−0·47	66·9	+24·3	58	+20
	Braemar §	64	32	61·3	34·4	47·0	+ 0·2	67	21	0	—	−0·48	81·0†	+41·2†	70†	+34†
	Ochtertyre §	69	32	66·1	38·0	51·2	+ 0·8	81	11	0	—	−0·58	*	*	*	*
	Leith	60	35	55·7	41·3	48·1	− 2·7	46	2	0	—	−0·42	*	*	*	*
	Marchmont §	63	35	54·9	37·7	45·8	− 2·8	45	12	0	—	−0·58	55·8	+14·9	49	+12
2. ENGLAND, N.E.	Alnwick Castle	57	37	51·9	41·3	46·3	− 2·0	33	2	0	—	−0·52	*	*	*	*
	Durham	60	36	52·8	39·9	46·0	− 3·8	37	6	0	—	−0·48	44·8	+ 6·0	40	+ 6
	Shields	55	39	50·0	40·4	44·9	− 3·9	27	4	0	—	−0·40	*	*	*	*
	Scarborough ℳ	54	40	49·9	41·8	45·6	− 4·1	26	1	0	—	−0·48	*	*	*	*
	York	68	38	60·9	40·3	50·0	− 1·2	63	5	0	—	−0·45	85·8	+43·9	77	+39
	Spurn Head	56	42	51·4	43·7	47·3	− 2·4	37	0	0	—	−0·39	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	64	34	56·5	42·5	49·1	− 2·2	50	0	0	—	−0·46	76·2	+29·4	69	+26
	Yarmouth	57	43	54·1	45·4	49·5	− 1·2	53	0	0	—	−0·45	*	*	*	*
	Geldeston	65	40	59·9	44·0	51·5	+ 0·4	67	0	0	—	−0·42	85·8	+35 8	78	+31
	Cambridge	69	36	64·6	42·0	52·6	+ 0·1	74	0	0	—	−0·45	79·3	+34·9	72	+31
	Rothamsted	66	38	62·8	42·4	52·0	+ 0·6	70	0	0	—	−0·48	82·4	+38·4	75	+34
4. MIDLAND COUNTIES	Harrogate ℳ	63	37	56·2	40·1	47·7	− 2·5	48	5	0	—	?	69·8	?	62	?
	Bawtry (Hesley Hall)	71	35	65·0	39·1	51·3	− 0·9	77	8	0	—	−0·50	*	*	*	*
	Loughborough	67	35	64·0	41·4	52·0	− 0·7	73	2	0	—	−0·48	*	*	*	*
	Stamford (Duddington)	67	37	62·4	41·4	51·3	− 0·7	68	2	0	—	−0·53	*	*	*	*
	Cheadle ℳ	70	36	63·5	41·9	52·1	+ 2·1	71	0	0	—	−0·55	*	*	*	*
	Shirley (near Solihull)	67	38	63·9	41·4	52·0	+ 0·1	73	2	0	—	?	*	*	*	*
	Churchstoke ℳ	68	36	64·0	41·1	51·9	+ 1·9	73	3	0	—	−0·52	87·3	+45·4	79	+40
	Hereford ℳ												*	*	*	*
	Cirencester	69	37	65·6	43·0	53·6	+ 2·8	81	0	0	—	−0·50	91·5	+46·5	83	+41
	Oxford	69	39	65·3	43·3	53·6	+ 1·5	81	0	0	—	−0·46	84·2	+40·6	77	+36
5. ENGLAND, S.	London	76	41	70·1	46·6	57·7	+ 4·3	110	0	1	0·01	−0·41	82·1†	+41·9†	75†	+37†
	North Foreland	56	45	53·4	46·4	49·7	− 1·5	54	0	1	0·24	?	*	*	*	*
	Dungeness	64	43	59·4	48·0	53·4	+ 1·2	80	0	2	0·18	−0·22	*	*	*	*
	Hastings (St. Leonards)	68	42	63·6	45·3	53·9	+ 1·7	83	0	2	0·16	−0·24	78·2	+25·4	72	+22
	Southampton	79	40	72·3	45·7	58·2	+ 4·9	113	0	1	0·03	−0·41	87·4	+38·9	80	+34
	Hurst Castle	71	42	66·0	47·6	56·3	+ 3·6	100	0	1	0·01	−0·39	*	*	*	*
	Shaftesbury ℳ	71	37	65·1	43·4	53·6	+ 2·5	81	0	0	—	−0·46	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	69	40	66·6	42·4	53·8	+ 3·2	83	0	0	—	−0·86	*	*	*	*
	Glasgow	66	39	61·1	42·1	51·0	+ 1·1	63	0	0	—	−0·60	77·7	+42·3	68	+36
	Ardrossan	66	40	64·1	43·9	53·4	+ 2·7	80	0	0	—	−0·52	*	*	*	*
	Glenlee §	70	27	66·3	34·6	49·5	0·0	84	21	0	—	−0·74	*	*	*	*
	Gilcrux (Cumberland)	67	37	63·6	40·7	51·5	+ 1·8	72	4	0	0·01‡	?	98·3	?	87	?
	Douglas Isle of Man)	66	38	63·1	42·3	52·1	+ 2·2	71	0	0	—	−0·52	93·3	+44·3	83	+38
7. ENGLAND, N.W.	Stonyhurst	66	37	62·9	41·6	51·6	+ 1·1	69	1	0	—	−0·68	95·8	+53·7	86	+47
	Blackpool ℳ	70	32	66·3	39·6	52·2	+ 1·3	81	7	0	—	−0·48	94·1	+51·7	84	+45
	Manchester (Prestwich)	66	35	62·4	40·8	51·0	+ 0·3	68	3	0	—	−0·59	93·0	?	83	?
	Liverpool Obsy. (Bidston)	69	39	64·1	44·0	53·5	+ 1·8	81	0	0	—	−0·45	*	*	*	*
	Llandudno ℳ	64	40	59·6	45·1	51·9	− 0·1	69	0	0	—	−0·44	*	*	*	*
	Holyhead	63	42	58·9	45·3	51·7	+ 0·2	68	0	0	—	−0·45	*	*	*	*
8. ENGLAND, S.W.	Llandovery	74	36	70·1	43·1	55·8	+ 4·1	97	0	0	—	−0·67	*	*	*	*
	Pembroke	68	46	62·6	49·1	55·5	+ 4·6	95	0	0	—	−0·46	89·0	+40·2	81	+36
	Clifton	72	39	67·2	44·6	55·2	+ 3·5	92	0	0	—	−0·54	*	*	*	*
	Arlington (N. Devon)	70	40	64·9	45·6	54·7	+ 4·1	89	0	0	—	−0·68	*	*	*	*
	Cullompton ℳ	74	37	67·3	45·1	55·5	+ 3·1	95	0	0	—	−0·45	70·6	+26·6	65	+23
	Falmouth	66	47	63·1	51·7	57·1	+ 4·7	106	0	2	0·08	−0·45	78·6	+27·9	73	+25
	Plymouth	73	50	67·9	53·0	60·0	+ 6·2	126	0	1	0·01	−0·45	82·5	+35·2	76	+31
	Prawle Point	68	45	63·7	48·6	55·7	+ 4·2	96	0	1	0·01	−0·33	*	*	*	*
9. IRELAND, N.	Malin Head	61	41	56·3	44·9	50·3	+ 0·1	58	0	0	—	?	*	*	*	*
	Londonderry	76	39	66·6	42·5	53·8	+ 2·3	83	0	0	—	−0·57	*	*	*	*
	Edenfel (Omagh)	71	38	60·0	41·7	54·5	+ 5·4	89	1	0	—	−0·57	*	*	*	*
	Belmullet	69	40	64·6	45·3	54·4	+ 3·2	87	0	0	—	−0·67	*	*	*	*
	Markree Castle	69	37	67·7	42·2	54·6	+ 4·9	88	0	0	—	−0·58	92·2	+51·0	82	+45
	Armagh	67	37	64·2	39·9	51·3	+ 0·9	74	6	0	—	−0·47	93·5	+53·8	83	+47
	Donaghadee	63	36	61·1	42·3	51·1	+ 0·4	64	0	0	—	−0·53	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	64	43	60·8	46·2	53·1	+ 0·6	78	0	0	—	−0·49	89·1	+42·7	80	+37
	Parsonstown	72	36	67·6	42·0	54 0	+ 2·7	84	0	0	—	−0·58	84·7	+44·2	76	+39
	Kilkenny	69	36	66·9	43·0	54·2	+ 2·7	85	0	0	—	−0·50	*	*	*	*
	Roche's Point	69	44	64·1	48.4	55·8	+ 2·9	97	0	0	—	−0 70	*	*	*	*
	Valencia	74	40	67·7	47·4	56·9	+ 4·2	104	0	0	—	−0·66	87·0	+41·0	79	+36
	Killarney	72	38	69·3	42·1	54·9	+ 2·6	90	0	0	—	?	*	*	*	*
	Foynes	?	43	?	46·4	?	?	?	?	0	—	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	63	48	59·6	49·3	54·1	+ 1·4	85	0	2	0·03	−0·35	81·1	?	75	?
	Jersey	67	48	62·4	49·9	55·8	+ 2·1	97	0	4	0·30	−0·15	58·8	+ 3·8	55	+ 2

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

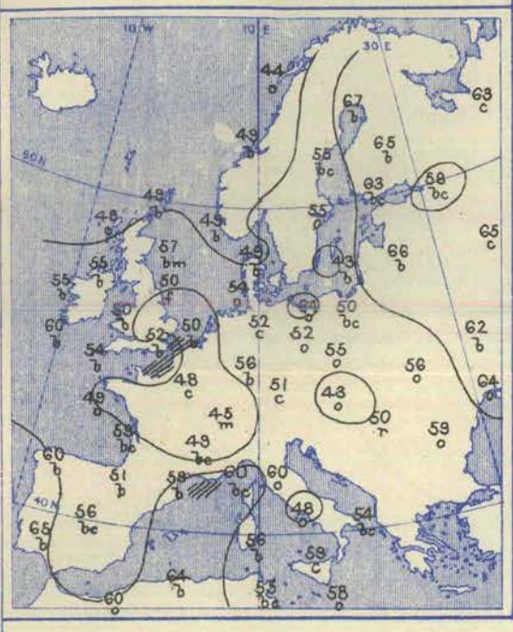
† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

‡ Dew.

Sunday, 16th May.

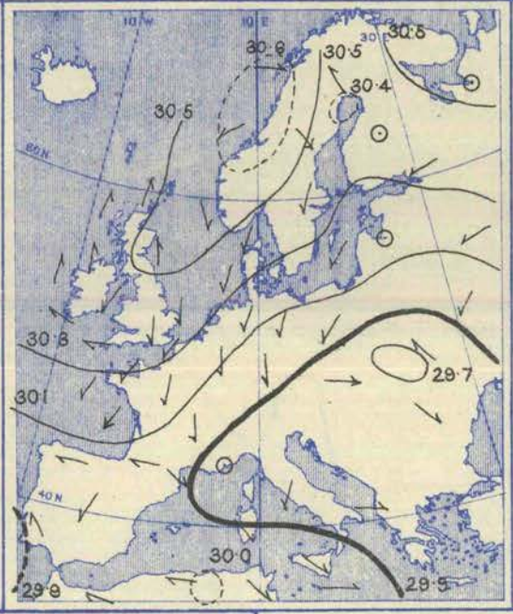
Temperature and Weather.

8 a.m.

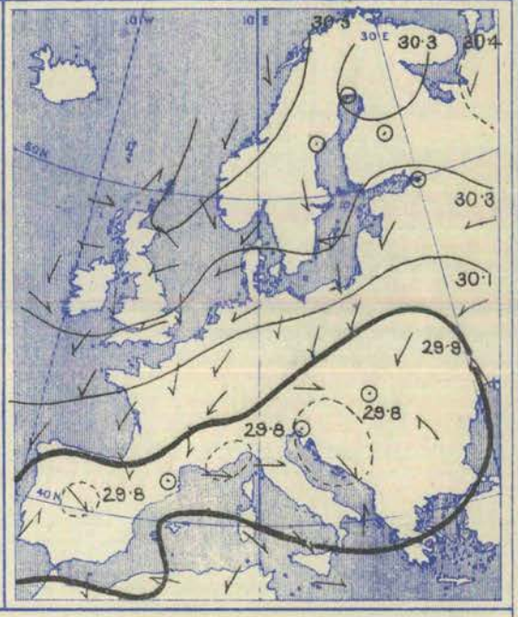


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western, northern, and southern Europe generally, but dull over northern Italy, with rain at Pesaro. Dull also at most of the German and Austrian stations, with rain at Cracow and Buda-Pesth. Rain falling later over the English Channel and the neighbouring parts of the Continent, and thunderstorms occurring on the Kentish coasts. Considerable quantities of rain reported over the northern parts of Austria.

Temperature risen in most places, but fallen in the south of England, as well as at many of the Spanish and Italian stations. Morning readings highest, (1) 68° at Sfax, 65° at Lisbon, and 64° at Algiers; (2) 67° at Haparanda, 66° at Uleaborg and Riga, and 65° at Moscow. Lowest, (1) 43° at Vienna, 45° at Belfort, and 47° at Le Mans; (2) 43° at Wisby, and 44° at Bodö; (3) 48° at Loughborough and Oxford. Rising during day to 65° and upwards in many parts of the United Kingdom; exceeding 70° at several stations in northern, central, and southern Europe, and reaching 80° at Madrid, and 81° at Oporto.

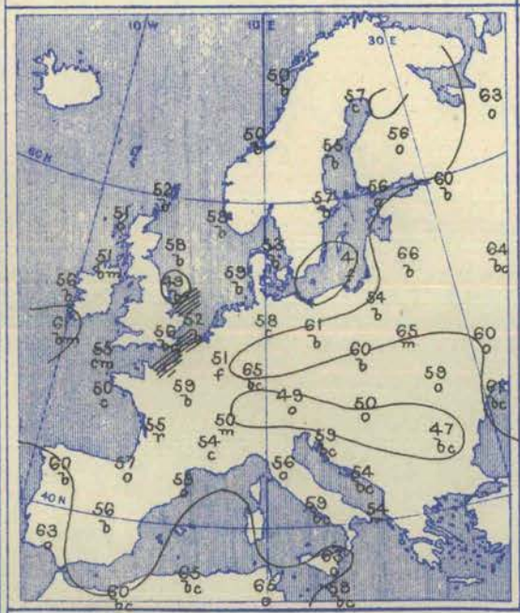
Wind light to moderate from the North-Eastward over England and the western and northern parts of the Continent generally, but South-Easterly or Southerly in Ireland and Scotland. Variable in Austria; Northerly or North-Westerly over Italy, the south of France, and the neighbouring parts of the Mediterranean. Subsequently becoming rather variable in Ireland and Scotland; backing to the Westward in Italy and the south of France.

Barometer highest, 30·6 ins. and upwards in the west of Norway; 30·3 ins. and upwards in an anticyclone embracing nearly the whole of northern and north-western Europe. Lowest, 29·7 ins. and less in a depression over northern Austria; 29·8 ins. and less (apparently) in a shallow system over the Gulf of Genoa. Austrian depression subsequently moving south-eastwards; new disturbance forming over central Spain.

Monday, 17th May.

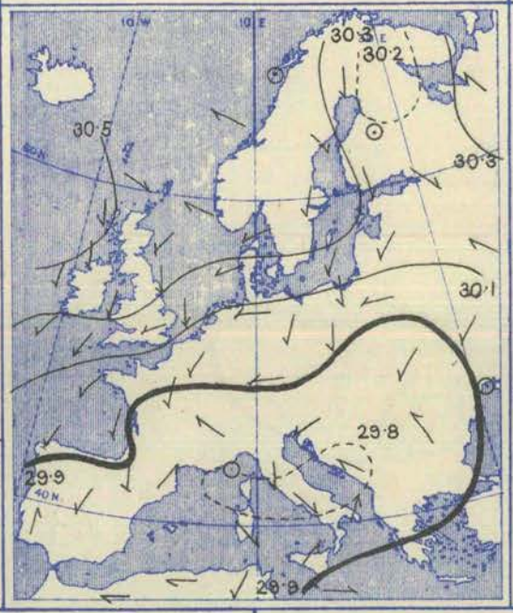
Temperature and Weather.

8 a.m.

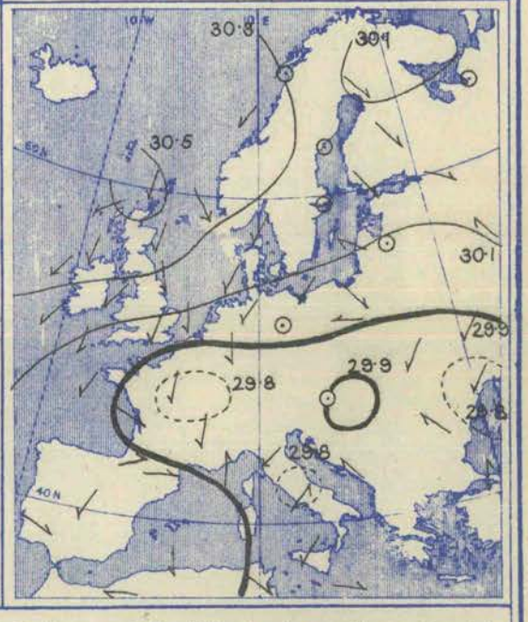


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western and northern Europe as a whole, but cloudy at several of the Channel and western French stations, with passing showers at Prawle Point, and steady rain at Rochefort. Dull over the greater part of south Germany, Austria, Italy, and the south of Russia, with rain at Cracow and Brindisi. A little rain falling later at some of the Channel, French, German, and Spanish stations; lightning seen at night at Hurst Castle, Dungeness, and Lyons, and a thunderstorm occurring at Paris.

Temperature risen in most countries, but fallen in Russia. Morning readings highest, (1) 70° at Oporto, 68° at Palma, and 65° at Algiers and La Calle; (2) 69° at Memel, 67° at Kharkov, and 66° at Riga; above 60° in many parts of eastern and central Europe. Lowest, (1) 49° at Shields and Spurn Head, and 51° at Malin Head and Holyhead; (2) 49° at Uleaborg, and 50° at Bodö and Christiansund. Rising during day well above 65° at several of our own central and southern stations, as well as in France, and touching 75° in London and Paris; reaching 76° at Brussels, 79° at Berlin, and 81° at Madrid.

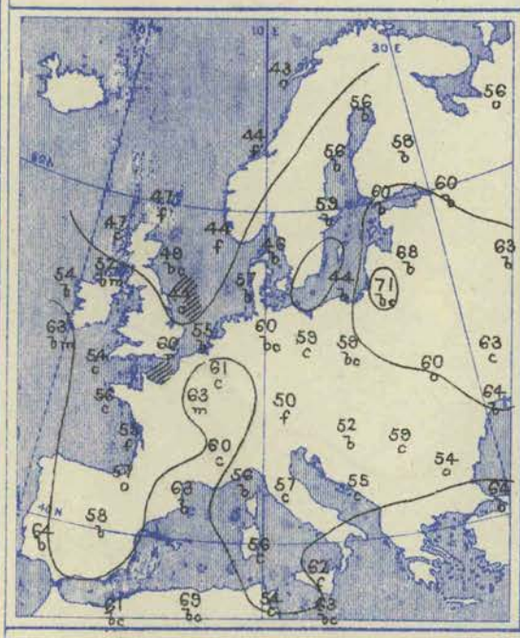
Wind North-Easterly (North to East) over nearly the whole of western, northern, and central Europe; light or moderate in force generally, but fresh on the eastern and southern coasts of England. Variable over the Spanish Peninsula, the Mediterranean, and the extreme south of France; cyclonic circulation of light breezes reported over Italy. No important change occurring during day.

Barometer highest, 30·50 ins. at Stornoway; 30·4 ins. and upwards in an anticyclone embracing the whole of Scotland, the north of Ireland, the northern parts of the North Sea, and the greater part of Scandinavia. Lowest, 29·8 ins. and less in a shallow and elongated depression lying over the Gulf of Genoa and the central parts of Italy and the Adriatic. New depression forming later over central France; barometer falling in most parts western Europe.

Tuesday, 18th May.

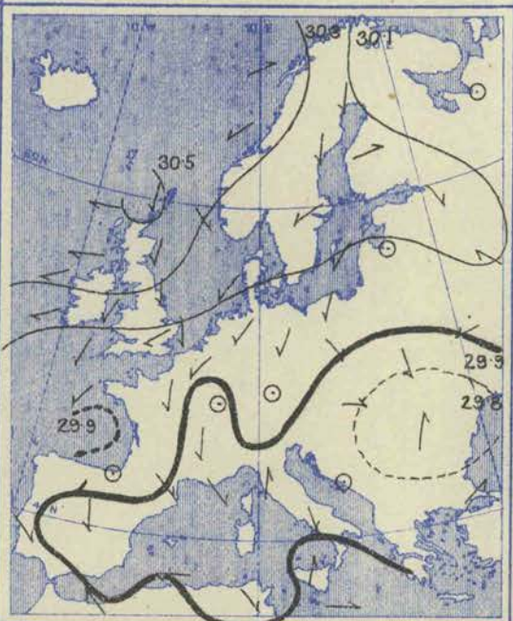
Temperature and Weather.

8 a.m.

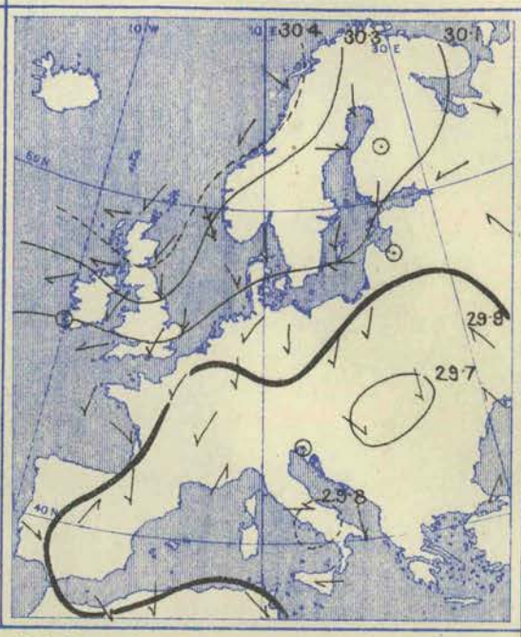


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but cloudy and misty or foggy at several of the French and German stations, as well as in the western parts of the English Channel. Cloudy or dull also in the south of Russia and many parts of Italy. Slight rain falling during day at some of the English Channel stations, and larger quantities over central France, and some parts of Germany and Austria; thunder occurring at Scilly and Prawle Point in morning, and a thunderstorm at Dungeness in following night.

Temperature fallen several degrees over the northern parts of Great Britain and the west of Norway, and slightly in Germany and Italy; risen or changed irregularly elsewhere. Morning readings highest, (1) 71° at Memel, 68° at Riga, and 67° at Kharkov; (2) 69° at Algiers, and 64° at Lisbon and Barcelona; (3) 63° at Valencia (Ireland) and Pembroke. Lowest, 43° at Bodö, and 44° at Wisby, Christiansund, Skudesnaes, and Shields; below 50° over nearly the whole of Scotland. Daily maxima below 55° over the northern parts of Great Britain as a whole, but thermometer exceeding 70° at some of our southern stations, as well as in the Netherlands, France, and Germany; reaching 76° in London, 77° at Paris, and 82° at Madrid.

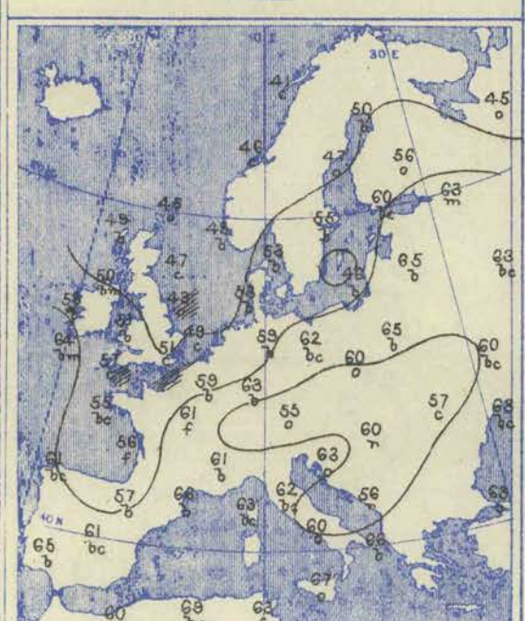
Wind light to fresh from the North-Eastward or Northward over north-western Europe generally, but Easterly in Ireland. Westerly or North-Westerly in Finland, but Easterly in the south of Russia. Variable over Austria and the Adriatic, and also over the Spanish Peninsula; light from the Northward or North-Westward in the south of France, and also over the western parts of Italy. Subsequently increasing to a gale from the Northward at Skudesnaes; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over Scotland and the west of Norway. Lowest, 29·8 ins. and less in a large shallow depression lying over Austria and the extreme south of Russia; 29·9 ins. and less in a large area of irregular shape, covering nearly the whole of southern and south-eastern Europe, and also in a small shallow area over the Bay of Biscay. No important change occurring over western Europe during day.

Wednesday, 19th May.

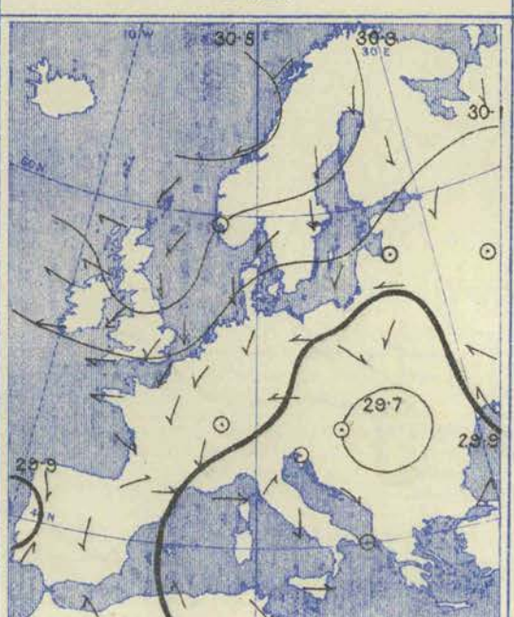
Temperature and Weather.

8 a.m.

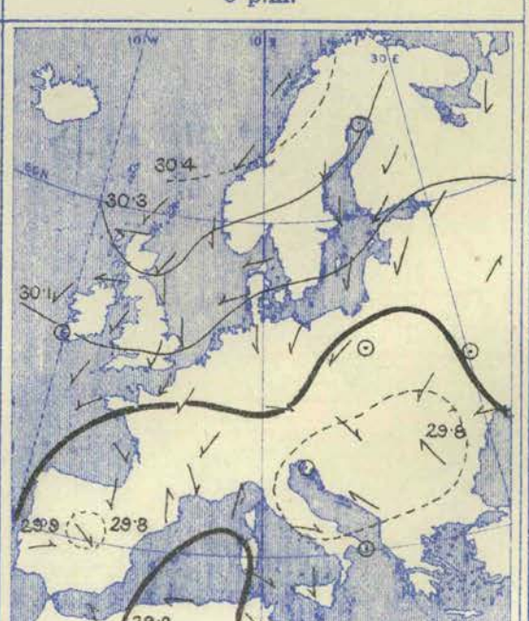


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western and northern Europe generally, but dull in the north-eastern parts of great Britain, as well as at some of the English Channel stations, with showers at Jersey; fog reported at Paris and Rochefort. Dull over the greater part of central Europe, and also over Italy and the Adriatic, with rain at Swinemünde, Buda-Pesth, and Lesina. Rain falling later over the southern parts of Germany; thunderstorm occurring at Scilly and Limoges, and lightning seen at Prawle Point, Jersey, and Lyons.

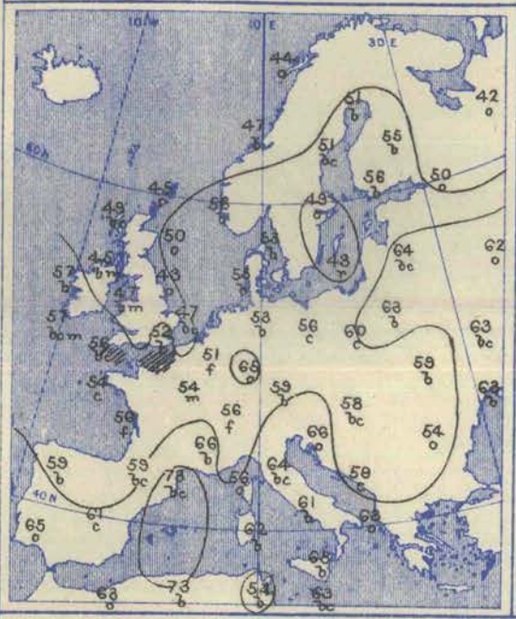
Temperature fallen in most parts of north-western Europe, risen or changed irregularly elsewhere. Morning readings highest, (1) 70° at Barcelona and Sfax, 69° at Algiers, and 67° at Palermo; (2) 66° at Memel, and 65° at Riga and Warsaw; (3) 64° at Valencia (Ireland). Lowest, 41° at Bodö, 43° at Shields, 44° at Wick, and 45° at Archangel and Wisby. Daily maxima below 55° at most of our northern and eastern stations, and as low as 47° at Shields; thermometer exceeding 65° in some parts of Ireland and the south of England; exceeding 75° in many parts of France and southern Europe, and reaching 82° at Madrid, and 83° at Perpignan.

Wind light to fresh from the North-Eastward or Northward over our Islands and all the more northern parts of the Continent generally, but Easterly in Ireland and the south-west of England. Light from the South-Eastward in the south of Russia, but from the Westward or North-Westward over Austria, Italy, and the south of France; variable over the Spanish Peninsula. No important change occurring during the day.

Barometer highest, 30·50 ins. at Christiansund; 30·1 ins. and upwards in an anticyclone extending from northern Europe over all but the extreme southern parts of our Islands. Lowest, 29·7 ins. and less in a depression over eastern Austria; 29·9 ins. and less in another disturbance off the Portuguese coasts. Barometer falling slightly over western Europe during day, but general distribution of pressure remaining unchanged; depression over Austria partially filling up.

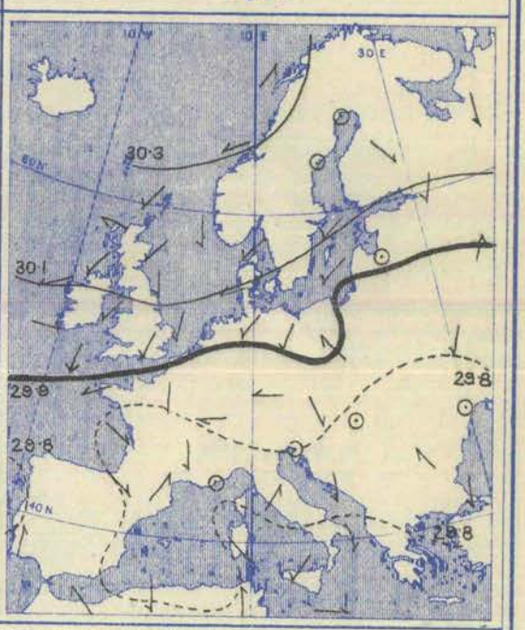
Thursday, 20th May.

Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.

Barometer and Wind. 6 p.m.



Weather in morning fine in all the more western and southern parts of our Islands, and also over the greater part of the Continent, but dull in the north of England and the extreme north of Scotland. Dull also in the north of France and in Portugal, as well as over central Russia; foggy at Brussels, Belfort, and Rochefort. Showers falling later at Jersey, and more decided rains over central France and western Germany; no important change occurring elsewhere.

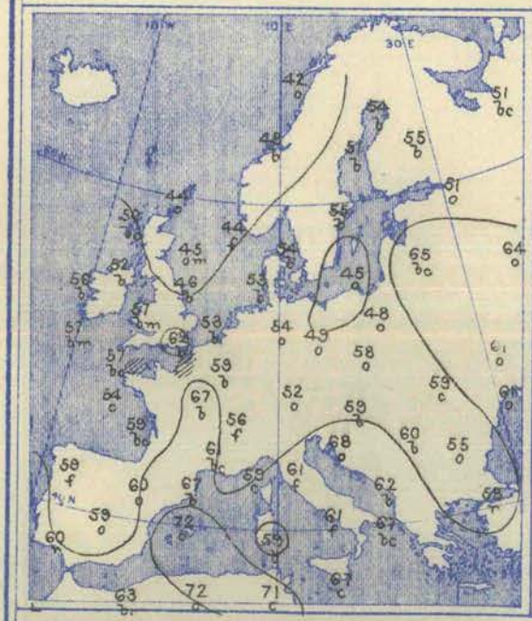
Temperature fallen in our Islands and the neighbouring parts of the Continent, as well as over Finland and the Baltic; risen in most other localities. Morning readings highest, 73° at Perpignan and Algiers, 72° at Barcelona and Sfax, and 69° at Oporto; above 60° in most parts of southern and eastern Europe. Lowest, (1) 42° at Archangel; (2) 43° at Wisby, and 47° at Neufahrwasser; (3) 43° at Shields, 44° at Bodö, and 45° at Sumburgh Head, Wick, Nairn, Leith, and Liverpool. Remaining below 55° all day on most parts of our north and east coasts, but exceeding 65° at several of our central and southern stations, and reaching 73° in London; exceeding 75° in many parts of western Europe, and touching 86° at Perpignan.

Wind varying between North and East over our Islands and all the more northern and central parts of the Continent generally; light or moderate in force in most places, but strong in the western parts of the English Channel, as well as in the Gulf of Finland. Light from the South-Westward over the extreme south of France and the north of Spain; Northerly or North-Westerly in Italy; calm or variable in Austria. No important change occurring over western Europe during day.

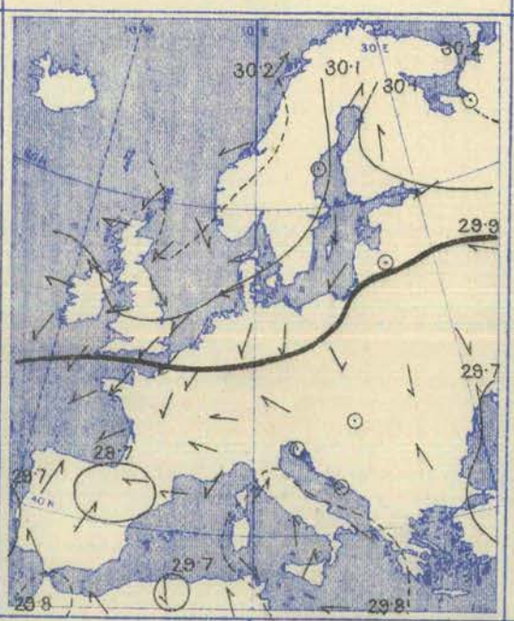
Barometer highest, 30·3 ins. and upwards over all the more western and northern parts of Scandinavia; 30·0 ins. and upwards in an anticyclone embracing the whole of our Islands and the northern parts of the Continent. Lowest, 29·8 ins. and less in a large shallow depression over Austria and the northern parts of the Adriatic, and also in a smaller system over the south of France. No important change occurring over western Europe during day, but depressions over the southern and south-eastern countries gradually filling up.

Friday, 21st May.

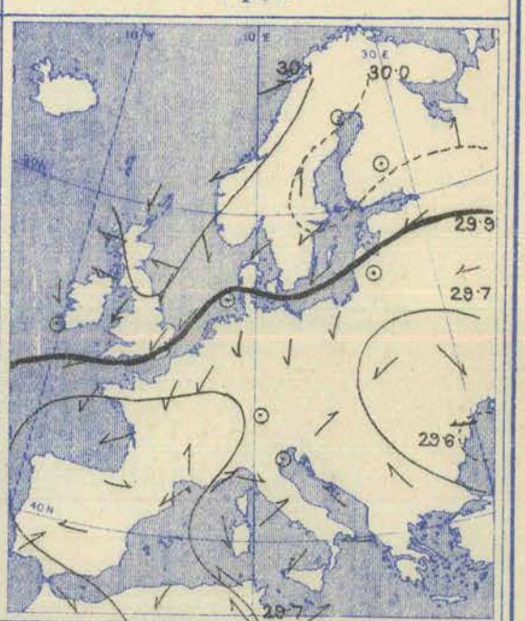
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western and northern Europe generally, but dull and misty in the north and east of Scotland. Cloudy or dull in many parts of the eastern, central, and southern countries, with fog in places, and rain at Lisbon and Constantinople. Thunderstorms and rain occurring later at several of the French stations, as well as at Moscow; slight rain falling also in south Germany, and in some parts of Denmark and Norway. Lightning seen at night at Prawle Point.

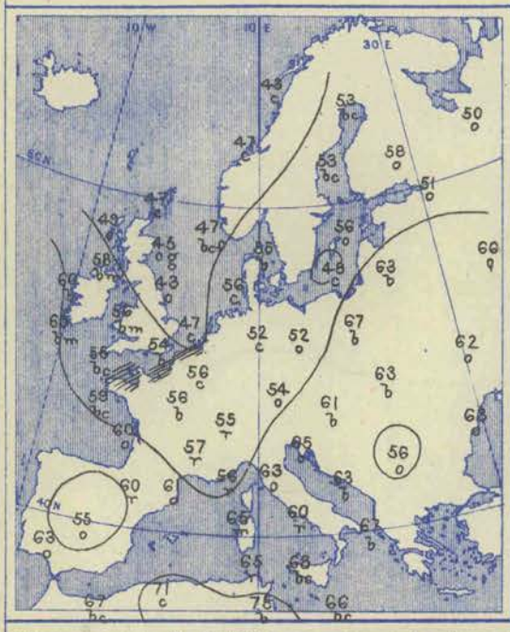
Temperature risen in our Islands, and also in Sweden and northern Russia; fallen or changed irregularly elsewhere. Morning readings highest, 73° at Sfax, 72° at Barcelona and Algiers, and 71° at La Calle; above 60° in most parts of southern and eastern Europe, and also in London and Paris. Lowest, (1) 42° at Bodö, 43° at Leith, and 44° at Skudesnaes and Sumburgh Head; (2) 45° at Wisby, and 48° at Swinemünde and Neufahrwasser. Thermometer remaining below 55° all day on several parts of our own north and north-east coasts. Exceeding 65° in the west and south of our Islands as a whole: exceeding 70° in most parts of France and southern Europe, and reaching 84° at Gap.

Wind varying between North and East over western and northern Europe generally; light or moderate in force in most places, but fresh or strong at some of the English Channel stations. Calm or variable over Austria and the south of Russia; rather variable, but chiefly Southerly (South-East to South-West) over Italy and the Spanish Peninsula. No important change occurring during day.

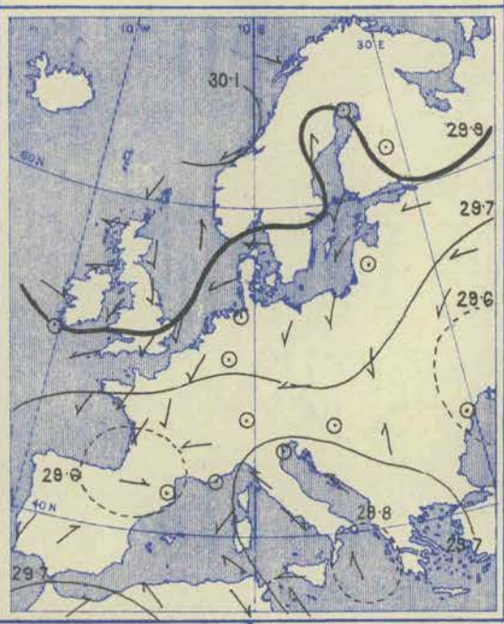
Barometer highest, 30·2 ins. and upwards over the west of Norway and the northern parts of the North Sea, and also over northern Russia. Lowest, 29·7 ins. and less in three shallow depressions—one lying over the south-west of France and the north-east of Spain, another over Algeria, and the third over the Black Sea. Barometer falling slightly over nearly the whole of Europe during day, but general distribution of pressure remaining unchanged.

Saturday, 22nd May.

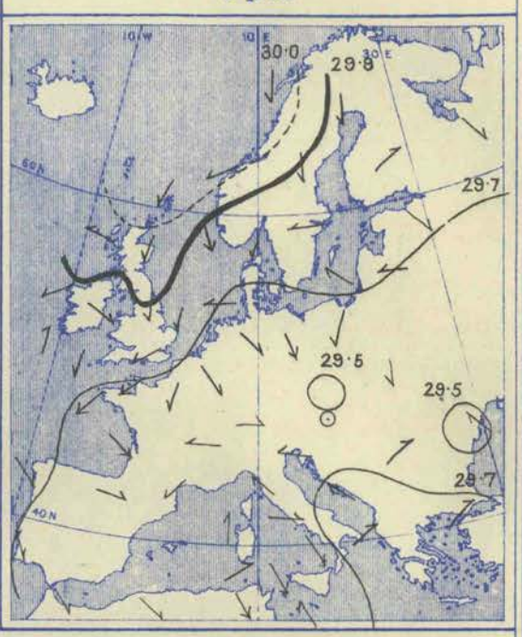
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine in all the more western and southern parts of the United Kingdom, as well as over the north of France, the Netherlands, Denmark, Scandinavia, Austria, and southern Italy. Cloudy or dull elsewhere, with rain in the east and south of France, as well as at Rome and Neufahrwasser. Rain falling later in many parts of the Continent—heavily at some of the French and German stations; thunderstorm occurring at Rochefort, thunder only at Cuxhaven, and lightning at Lyons, Nemours, and Puy de Dôme.

Temperature fallen in England and the western and southern parts of the Continent generally, risen in most other localities. Morning readings highest, 75° at Sfax, 72° at La Calle, 71° at Algiers, and 67° at Barcelona, Brindisi, Nemours, and Tunis; above 60° over southern and eastern Europe generally, and just touching that point on the west coasts of Ireland. Lowest, 43° at Shields and Bodö, 44° at Leith, and 45° at Wick, Nairn, Aberdeen, and Loughborough. Daily maxima below 55° on our own north and east coasts generally, and as low as 47° at Shields and Spurn Head; thermometer exceeding 65° at some of our western stations, and reaching 70° or more in several parts of central and southern Europe.

Wind North-Easterly (Northerly to Easterly) over our Islands and the northern parts of the Continent generally; light or moderate in force in most places, but fresh or strong at some of the English Channel stations. Light and variable in most of the southern countries, but South-Easterly at the Adriatic stations. Subsequently becoming variable in Ireland; no important change taking place in any other part of western Europe.

Barometer highest, 30·10 ins. at Christiansund; 30·0 ins. and upwards in an anticyclone covering the whole of the west of Norway, the northern parts of the North Sea, Scotland, and the north-east of England. Lowest, 29·6 ins. and less in two shallow depressions—one lying over the north-east of Spain and the south-western parts of France, and the other over the south of Russia. French depression subsequently moving slowly north-eastwards; barometer falling slowly in most parts of western Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the whole of this period the weather over north-western and northern Europe was influenced by a large anticyclone, the central portion of which lay, as a rule, over the west of Norway and the neighbouring parts of the Atlantic. The prevailing winds were therefore North-Easterly (North to East), and the weather fair and dry, with high temperatures in most places, but with very low day readings (due to the presence of much cloud) on the north-east coasts of Great Britain.

Over the southern parts of the Continent the conditions were affected by shallow depressions which appeared in various regions, and which occasioned variable breezes and rain in many places. Over France thunderstorms were experienced on several occasions, and in the early part of the week the unsettled weather spread northward to some of the English Channel stations.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 116.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	66·6	+30·1	58	+25	EASTBOURNE	76·1	+26·0	70	+23
OSWALDKIRK (Yorkshire)	78·0	+39·0	70	+35	VENTNOR	80·8	?	74	?
WORKSOP	74·7	+36·1	67	+32	SOUTHPORT	91·1	?	81	?
THURCASTON (Leicestershire)	81·8	+41·0	74	+36	COLWYN BAY	89·9	?	81	?
MARGATE	55·9	+12·1	51	+10	NEWQUAY	78·1	+31·0	72	+27
WESTBOURNE (Sussex)	83·7*	+32·8	77*	+29	TORQUAY	83·5*	+35·1	77*	+31
BRIGHTON	81·7	+33·4	75	+30	GUERNSEY	55·0*	− 3·8	51*	− 6

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

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VOL. XIV. No. 21.] *Third Series.* WEEK ENDING SATURDAY, MAY 29TH, 1897. [*Price 6d.* *Annual Subscription, post paid*, £1 10*s.* 0*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 122.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	35	54·9	41·9	48·1	1 below	43	− 4	0	− 4	333	− 17	615	+ 1
	1. SCOTLAND, EAST	69	29	55.2	40·6	47·4	3 below	44	−14	4	+ 1	407	− 39	661	+ 15
	2. ENGLAND, N.E.	64	32	54·6	42·1	48·0	3 below	42	−17	0	− 2	432	— 4	471	− 76
	3. ENGLAND, EAST	69	40	59·4	45·0	51·8	1 below	69	− 4	0	− 3	586	+ 21	493	−121
	4. MIDLAND COUNTIES	70	34	61·9	42·3	51·5	1 below	67	− 8	0	− 2	590	− 10	503	−114
	5. ENGLAND, SOUTH	72	38	60·4	45·7	52·6	1 below	74	− 6	0	− 1	666	+ 32	297	−178
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	68	30	58·7	42·1	49·9	2 below	55	− 9	0	− 2	444	− 40	441	− 19
	7. ENGLAND, N.W.	66	33	58·5	42·6	50·1	3 below	57	−10	0	− 2	492	− 7	367	− 90
	8. ENGLAND, S.W.	73	32	59·7	44·5	51·7	2 below	68	− 6	0	− 1	671	+ 40	223	−138
	9. IRELAND, NORTH	70	36	59·2	43·2	50·7	1 below	61	− 4	0	− 1	505	− 56	403	+ 10
	10. IRELAND, SOUTH	70	36	59·2	43·7	51·0	2 below	63	− 9	0	− 1	698	+ 6	242	− 56
	—CHANNEL ISLANDS	63	46	58·5	48·6	53·3	1 below	79	− 1	0	0	868	+122	68	− 80

Rainfall.

	DISTRICTS. (See p. 122.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	5	1 less	96	− 1	16·4	− 2·1
	1. SCOTLAND, EAST	5	9	4 more	85	+ 8	10·2	− 0·9
	2. ENGLAND, N.E.	5	6	2 more	83	+ 9	8·7	− 0.1
	3 ENGLAND, EAST	5	3	2 less	83	+11	9·5	+ 0·9
	4. MIDLAND COUNTIES	4	5	0 (average)	79	+10	10·7	+ 1·0
	5. ENGLAND, SOUTH	5	4	1 less	76	+ 9	11·8	+ 1·5
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	9	2 more	87	+ 5	15·8	− 2·2
	7. ENGLAND, N.W.	3	6	1 more	89	+14	12·1	+ 0·8
	8. ENGLAND, S.W.	5	9	4 more	96	+21	18·3	+ 4·5
	9. IRELAND, NORTH	4	8	2 more	99	+12	14·6	+ 1·4
	10. IRELAND, SOUTH	5	9	3 more	92	+11	17·0	+ 2·3
	—CHANNEL ISLANDS	5	7	3 more	102	+20	15·6	+ 3·7

Bright Sunshine.

	DISTRICTS. (See p. 122.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	40	+ 4	31	0	496	+ 67	30	+ 4
	1. SCOTLAND, EAST	34	− 7	28	− 8	503	+ 14	30	+ 1
	2. ENGLAND, N.E.	40	− 1	35	− 2	538	+ 53	32	+ 3
	3. ENGLAND, EAST	36	−11	32	−11	576	+ 19	34	+ 1
	4. MIDLAND COUNTIES	44	+ 1	39	0	558	+ 49	33	− 3
	5. ENGLAND, SOUTH	44	− 5	40	− 5	601	+ 19	35	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	48	+ 5	42	+ 3	557	+ 45	33	+ 3
	7. ENGLAND, N.W.	58	+13	51	+12	576	+ 70	34	+ 4
	8. ENGLAND, S.W.	51	+ 2	46	+ 1	581	− 37	34	− 2
	9. IRELAND, NORTH	52	+10	46	+ 9	534	+ 44	32	+ 3
	10. IRELAND, SOUTH	53	+ 8	47	+ 6	567	− 2	34	0
	—CHANNEL ISLANDS	47	−32	43	−30	597	−109	35	− 6

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather continued very fine and dry until Tuesday, when it became unsettled in the north, with occasional rain, and this condition extended rather quickly to all other parts of the Kingdom. Thunder and lightning occurred in many parts of England during the latter part of the week.

Temperature was below the mean, the deficit ranging from 1° in most districts to 2° in Ireland S., England S.W. and Scotland W., and 3° in England N.W. and N.E. and Scotland E. The highest of the maxima were recorded, as a rule, on the 25th, when they ranged from 73° in England S.W. and 72° in England S. to 64° in Scotland N. and England N.E., and 63° in the Channel Islands. The absolute minima were recorded on rather irregular dates, and were again very low—ranging from 29° in Scotland E., 30° in Scotland W., and 32° in England N.E. and S.W. to 40° in England E., and to 46° in the Channel Islands.

Rainfall was more than the mean over all the western half of the Kingdom, as well as in Scotland E. and England N.E., and just equal to it in the Midland counties; in Scotland N. and England E. and S. the fall was rather less than the normal.

Bright Sunshine exceeded the mean in Ireland and in Scotland W., but was either below or just equal to the normal over Great Britain. The percentage of the possible duration ranged from 51 in England N.W. and 47 in Ireland S. to 31 in Scotland N., and to 28 in Scotland E.

Barometer and Wind.—The distribution of pressure over our Islands continued anticyclonic, and as pressure was highest in the north, the winds were North-Easterly or Northerly. Late on Monday, however, pressure gave way in the north-west, and the wind shifted to between South-West and North-West very generally. During the remainder of the period depressions reached us from the Atlantic; none of these were deep, and the winds, which varied from between South-East and South-West, did not increase much in force.

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II.—DATA from which the SUMMARY on page 121 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	55	41	50·7	43·0	46·6	0·0	32	0	5	0·27	−0·18	*	*	*	*
	Stornoway	61	38	53·4	40·3	46·5	− 2·1	39	5	4	0·17	−0·45	48·9	+ 7·1	41	+ 5
	Wick	57	42	53·0	43·3	47·9	− 0·7	41	0	4	0·24	−0·14	*	*	*	*
	Lairg Ⓢ	63	36	56·4	40·9	48·2	− 0·7	47	3	5	0·47	−0·03	*	*	*	*
	Glencarron Ⓢ	63	36	57·0	41·5	48·8	− 0·9	50	1	5	0.76	− 0·42	*	*	*	*
	Fort Augustus Ⓢ	58	35	55·3	41·7	48·1	− 2·4	44	1	6	0·61	+0·19	33·8	+ 5·6	29	+ 4
	Fort William Ⓢ	64	37	58·7	42·9	50·3	− 1·2	58	0	5	0·98	+0·19	38·5	− 0·3	33	0
1. SCOTLAND, E.	Nairn	61	37	57·1	41·4	48·8	− 2·1	50	2	5	0·48	+0·05	*	*	*	*
	Aberdeen	56	35	50·7	41·9	46·0	− 4·4	28	0	6	1·21	+0·73	25·5	−18·5	2	−16
	Braemar Ⓢ	61	29	54·9	36·1	44·9	− 3·4	45	17	5	0·97	+0·49	36·8†	− 4·5†	31†	− 5†
	Ochtertyre Ⓢ	69	33	59·7	41·4	50·0	− 2·0	59	2	5	1·08	+0·46	*	*	*	*
	Leith	61	40	55·1	42·9	48·6	− 3·6	46	0	4	0·71	+0·26	*	*	*	*
	Marchmont Ⓢ	56	36	53·4	39·9	46·3	− 3·7	39	6	5	0·99	+0·39	33·8	− 8·3	29	− 8
2. ENGLAND, N.E.	Alnwick Castle	55	36	51·1	40·4	45·4	− 4·3	31	4	5	0·65	+0·11	*	*	*	*
	Durham	62	32	55·5	39·5	47·0	− 4·4	46	7	6	1·03	+0·51	32·7	− 7·1	28	− 7
	Shields	60	40	53·1	42·0	47·2	− 3·0	36	0	4	0·56	+0·14	*	*	*	*
	Scarborough Ⓜ	64	38	53·4	43·5	48·2	− 3·0	43	0	4	0·46	−0·04	*	*	*	*
	York	64	38	60·9	41·7	50·7	− 1·7	61	1	5	0·77	+0·27	48·9	+ 6·0	43	+ 5
	Spurn Head	62	41	53·4	45·4	49·2	− 2·0	50	0	4	0·35	−0·07	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	64	43	58·7	44·2	51·0	− 1·7	63	0	5	0·47	−0·03	26·4	−21·5	23	−20
	Yarmouth	63	44	56·0	46·4	50·9	− 1·2	62	0	3	0·08	−0·39	*	*	*	*
	Geldeston	64	43	59·8	45·3	52·1	− 0·5	71	0	5	0·18	−0·27	39·4	−11·8	35	−12
	Cambridge	68	42	61·6	45·1	52·9	− 1·2	76	0	5	0·32	−0·16	40·3	− 5·2	36	− 5
	Rothamsted	69	40	60·7	44·1	51·9	− 1·1	69	0	5	0·59	+0·11	38·1	− 6·9	34	− 7
4. MIDLAND COUNTIES	Harrogate Ⓜ	60	35	57·3	40·7	48·5	− 3·1	51	4	4	0·72	?	41·7	?	37	?
	Bawtry (Hesley Hall)	67	36	62·3	39·9	50·4	− 3·0	68	6	5	0·33	−0·20	*	*	*	*
	Loughborough	67	41	62·3	44·4	52·8	− 1·4	76	0	4	0·93	+0·41	*	*	*	*
	Stamford (Duddington)	65	42	62·3	44·0	52·6	− 0·8	74	0	5	0·20	−0·35	*	*	*	*
	Cheadle Ⓜ	65	37	60·3	43·4	51·3	− 0·1	65	0	4	0·49	−0·11	*	*	*	*
	Shirley (near Solihull)	65	39	61·6	42·5	51·5	− 1·9	67	0	5	0·95	?	*	*	*	*
	Churchstoke Ⓜ	68	34	62·1	39·3	50·0	− 1·4	67	8	4	0·37	−0·19	56·1	+13·1	50	+11
	Hereford Ⓜ	70	37	65 2	41·8	52·8	− 1·0	76	1	4	0·37	−0·17	*	*	*	*
	Cirencester	69	37	62·6	41·9	51·6	− 0·6	68	0	4	0·48	−0·06	41·9	− 3·9	37	− 5
	Oxford	69	40	62·7	44·7	53·2	− 0·2	78	0	3	0·17	−0·33	40·8	− 3·9	36	− 5
5. ENGLAND, S.	London	72	42	62·7	46·0	53 9	− 1·1	83	0	4	0·36	−0·11	40·9†	− 0·8†	37†	− 1†
	North Foreland	62	44	58·7	46·0	51·7	− 1·0	68	0	6	0·22	?	*	*	*	*
	Dungeness	63	40	58·9	47·0	52·6	− 1·0	74	0	4	0·13	−0·34	*	*	*	*
	Hastings (St. Leonards)	66	41	60·4	45·7	52·6	− 0·7	74	0	4	0·25	−0·20	46·5	− 7·6	42	− 8
	Southampton	70	40	63·0	45·3	53·6	− 0·9	81	0	5	0·39	−0·06	42·9	− 6·6	39	− 7
	Hurst Castle	67	42	60·4	47·1	53·4	− 0·6	80	0	4	0·38	−0·07	*	*	*	*
	Shaftesbury Ⓜ	67	38	58·9	43·1	50·5	− 1·7	60	0	5	0·72	+0·31	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	64	37	58·7	41·5	49·6	− 2·1	55	1	5	0·54	−0·35	*	*	*	*
	Glasgow	65	42	57·5	43·9	50·3	− 0·9	58	0	5	1·24	+0·56	36·1	− 0·2	31	− 1
	Ardrossan	67	42	58·0	43·9	50·5	− 1·4	60	0	5	0·60	+0·02	*	*	*	*
	Glenlee Ⓢ	68	30	61·4	37·0	48·5	− 2·6	67	14	3	0·73	−0·07	*	*	*	*
	Gilcrux (Cumberland)	65	36	58·8	41·2	49·5	− 1·7	56	2	5	1·46	?	48·7	?	42	?
	Douglas Isle of Man)	64	41	57·8	44·9	50·9	− 0·5	62	0	3	1·03	+0·46	60·2	+10·0	53	+ 8
7. ENGLAND, N.W.	Stonyhurst	66	36	59·0	41·0	49·5	− 2·6	57	3	3	1·18	+0·41	54·5	+10·7	48	+ 9
	Blackpool Ⓜ	65	33	59·7	39·9	49·2	− 3·1	59	6	3	0·52	0·00	60·2	+16·2	53	+14
	Manchester (Prestwich)	65	35	59·6	40·9	49·7	− 2·6	59	3	4	0·91	+0·24	47·2	?	41	?
	Liverpool Obsy. (Bidston)	62	39	58·1	43·4	50·3	− 2·4	58	0	4	0·54	+0·03	*	*	*	*
	Llandudno Ⓜ	62	41	58·1	44·9	51·1	− 2·2	64	0	4	0·45	−0·03	*	*	*	*
	Holyhead	64	44	56·6	45·3	50·6	− 2·1	60	0	2	0·24	−0·24	*	*	*	*
8. ENGLAND, S.W.	Llandovery	73	32	64·4	39·7	51·3	− 1·9	75	6	4	0·72	+0·02	*	*	*	*
	Pembroke	60	45	55·7	47·7	51·5	− 0·8	67	0	5	1·17	+0·67	54·2	+ 4·5	48	+ 3
	Clifton	67	42	62·1	45·2	53·1	+ 0·2	78	0	4	0·53	−0·05	*	*	*	*
	Arlington (N. Devon)	66	34	59·3	42·1	50·2	− 1·4	57	0	5	1·09	+0·34	*	*	*	*
	Cullompton Ⓜ	69	39	62·1	42·7	51·8	− 1·8	69	0	5	0·77	+0·35	37·1	− 8·4	33	− 9
	Falmouth	62	43	58·6	47·2	52·6	− 0·9	74	0	5	0·66	+0·16	60·4	+ 8·4	55	+ 7
	Plymouth	61	38	57·5	46·0	51·4	− 3·8	66	0	5	1·01	+0·53	50·2	+ 2·0	46	+ 1
	Prawle Point	63	41	57·7	45·6	51·3	− 1·4	65	0	5	1·08	+0·69	*	*	*	*
9. IRELAND, N.	Malin Head	64	42	57·6	45·6	51·2	− 0·2	64	0	4	1·14	?	*	*	*	*
	Londonderry	70	40	63·7	43·1	52·8	− 0·2	76	0	5	1·26	+0·64	*	*	*	*
	Edenfel (Omagh)	70	39	59·6	41·9	50·2	+ 0·1	58	0	5	0·90	+0·30	*	*	*	*
	Belmullet	64	40	56·6	45·4	50·7	− 1·7	61	0	3	0·43	−0·29	*	*	*	*
	Markree Castle	69	37	59·2	42·4	50·3	− 1·2	58	0	5	0·52	−0·12	45·7	+ 3·9	40	+ 3
	Armagh	69	37	59·9	41·6	50·2	− 1·5	59	1	4	0·57	+0·10	59·0	+18·3	52	+16
	Donaghadee	62	38	56·6	43·9	49·9	− 3·1	55	0	5	0·97	+0·40	*	*	*	*
	Edgeworthstown	68	36	60·5	41·5	50·4	− 0·9	61	1	3	0·65	− 0·02	*	*	*	*
10. IRELAND, S.	Dublin	62	41	58·5	45·3	51·5	− 2·2	67	0	5	0·40	−0·10	57·7	+10·7	51	+ 8
	Parsonstown	70	36	60·4	41·4	50·3	− 2·2	61	2	5	0·78	+0·18	48·6	+ 7·8	43	+ 7
	Kilkenny	69	39	60·9	42·9	51·4	− 1·3	66	0	5	1·03	+0·53	*	*	*	*
	Roche's Point	65	45	58·3	46.3	51·9	− 2·3	69	0	4	0·57	− 0·15	*	*	*	*
	Valencia	68	41	56·9	44·4	50·3	− 3·6	58	0	5	1·51	+0·89	51·5	+ 4·5	46	+ 3
	Killarney	69	36	60·2	41·7	50·5	− 2·8	61	1	5	1·25	?	*	*	*	*
	Foynes	?	43	?	45·0	?	?	?	?	4	0 72	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	46	58·3	48·6	53·2	− 0·5	78	0	5	0·58	+0·16	67·6	?	61	?
	Jersey	63	46	58·6	48·6	53·3	− 1·6	79	0	4	0·81	+0·33	27·1	−33·1	25	−32

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

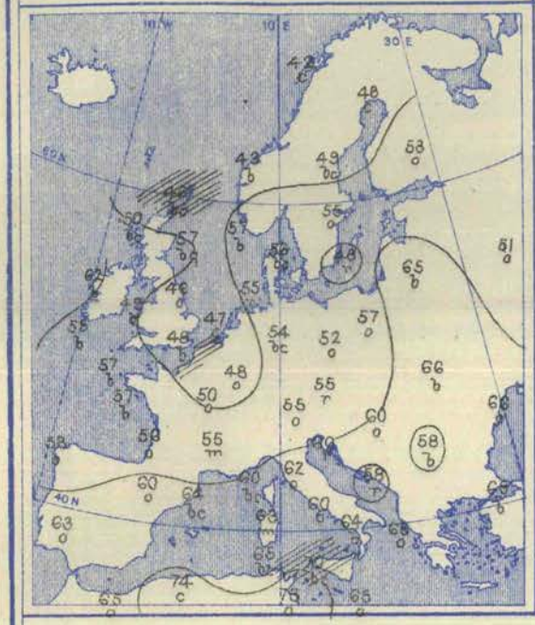
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 23rd May.

Temperature and Weather.

8 a.m.

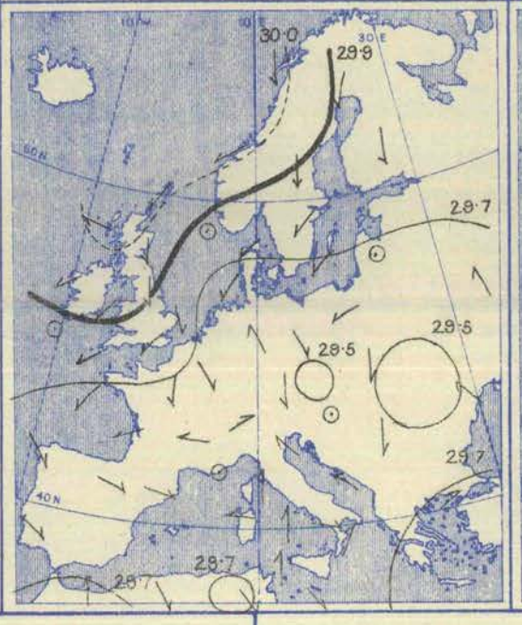


Weather in morning fine and bright over the British Islands and Norway, also over many parts of central Europe, and the western and southern shores of the Mediterranean; very rainy over the northern parts of Italy and the Adriatic, as well as at Prague and Münster, Rain falling later over several parts of southern, central, and northern Europe; thunderstorms in several places. Condition remaining fine over our Islands.

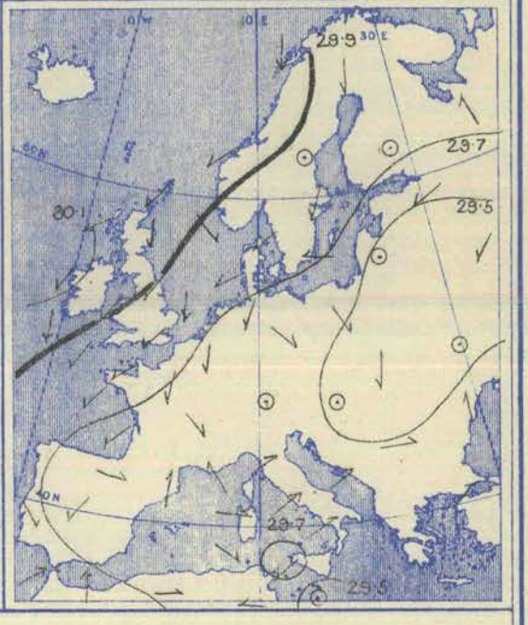
Temperature not changing decidedly. Morning readings highest, 74° at Algiers, 70° at Palermo, 69° at Constantinople, 66° at Nicolaieff and Lemberg, 70° at Memel, 65° at Riga. Lowest, 42° at Bodö, 45° at Oxford, 46° at Sumburgh Head, Shields, and Spurn Head, 47° at Nairn, Yarmouth, and the North Foreland. Rising later to between 65° and 67° over our inland counties, to between 70° and 75° in the south of France, 77° at Algiers, and 84° at Cagliari, but not touching 60° in the north and east of Scotland.

Barometer and Wind.

8 a.m.



6 p.m.



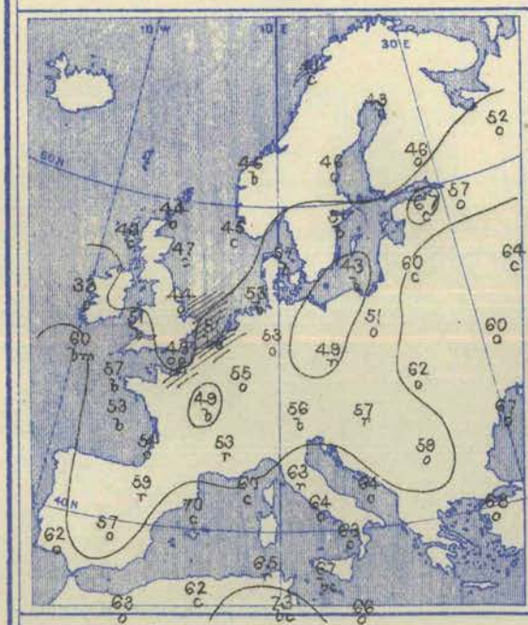
Wind varying from between North and East over the British Islands and north-western Europe; very variable and light over southern and central Europe; South-Westerly over Turkey and neighbouring regions. No decided change later, except over the Mediterranean, where Westerly to South-Westerly winds became prevalent, and freshened in force.

Barometer highest 30·0 ins. and more to 29·8 ins. over the British Islands and northern Europe. Lowest, below 29·6 ins. all over central Europe, the south of France, and all the northern parts of Italy; gradients slight or moderate, except between the Scotch and Norwegian coasts. Rising slightly in the north later—very little change elsewhere.

Monday, 24th May.

Temperature and Weather.

8 a.m.

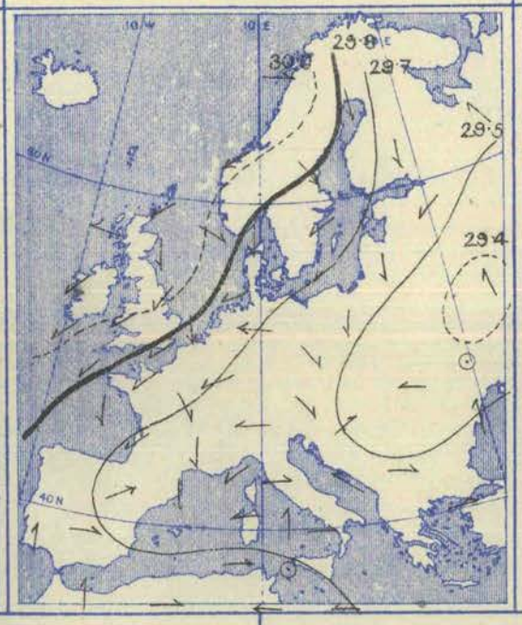


Weather in morning fine and bright over Scandinavia, as well as over many of the western parts of our Islands and France; cloudy or overcast elsewhere, with some rain in many places, and a large quantity at Wisby. A considerable fall of rain at Aberdeen and Brussels, and some local showers in a few other places, but sky clearing over England.

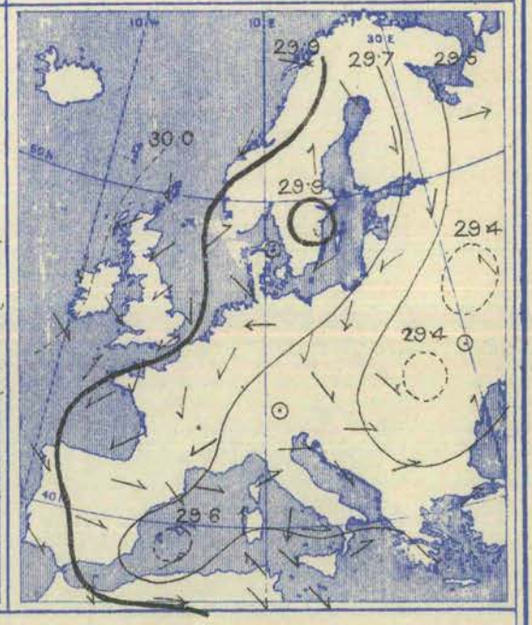
Temperature in morning highest, 73° at Tunis, 70° at Barcelona, 69° at Algiers, 67° at Palermo, and 60° or more at the Mediterranean stations, and over nearly the whole of south-eastern and some parts of central Europe; 67° at Helsingfors, 64° at Moscow; 60° at Valencia and Roche's Point, 57° at Scilly. Lowest, 41° to 43° at the stations in Lapland, 44° at Sumburgh Head and Shields, 45° at Spurn Head, 47° at Loughborough and Oxford. Rising later to 62° at Oxford, 65° at Hurst Castle and Loughborough, and 70° at Parsonstown; to 64° at Paris 68° at Nice, and 73° at Rochefort. Not exceeding 57° at Berlin.

Barometer and Wind.

8 a.m.



6 p.m.

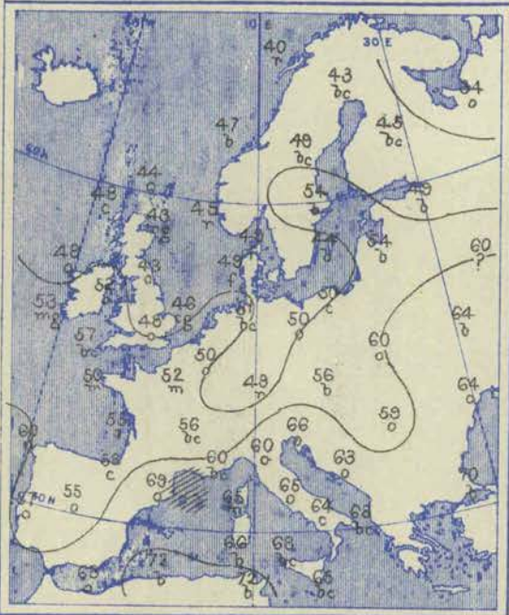


Wind (1) moderate from between North and North-East over almost all the northern and north-western countries, but falling light over Ireland and Scotland; (2) very light and variable over the eastern and southern countries, and light from North-West over central Europe. Becoming very variable and light over Ireland later. The North-Easterly current apparently giving way.

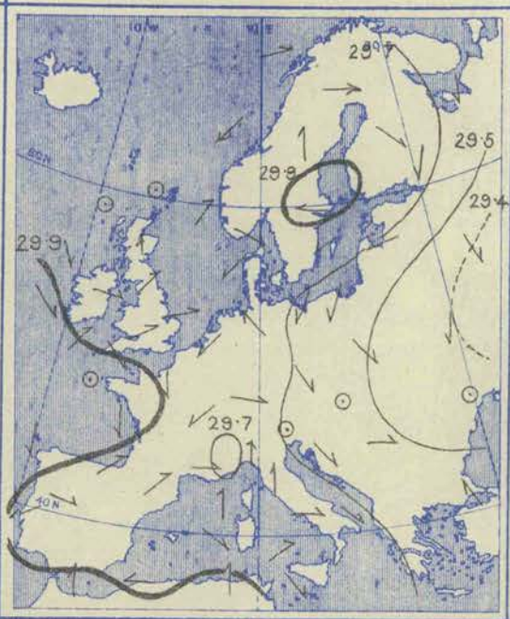
Barometer highest, 30·0 ins. and more over Ireland, Scotland, and the north-west of Norway, and exceeding 29·8 ins. over Portugal and the north of Africa. Lowest, below 29·4 ins. in a depression over central Russia, and below 29·6 ins. over the east and south of France Falling in the west and north of our Islands later, and in Norway; rising over Spain, France, and the southern parts of England.

Tuesday, 25th May.

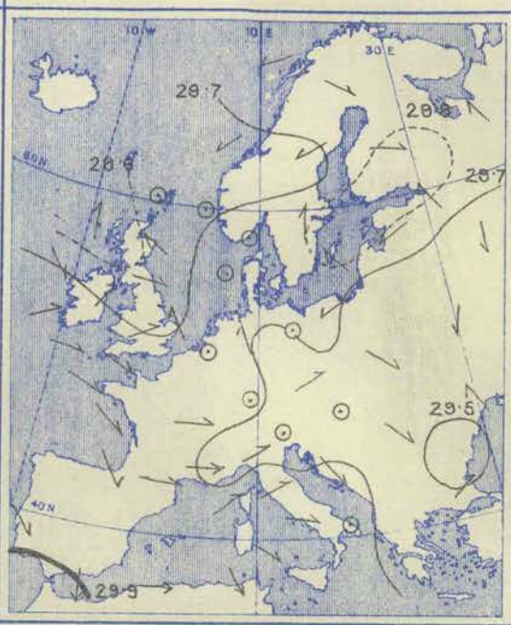
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over many parts of Scandinavia, the Baltic, and the northern half of Russia; dull and becoming unsettled over many parts of the British Islands and their neighbourhood, as well as over France and central Europe; fine over the southern parts of the Mediterranean. Becoming rainy in the west and north of our Islands later, with passing showers and thunder over England, and thunderstorms in several localities.

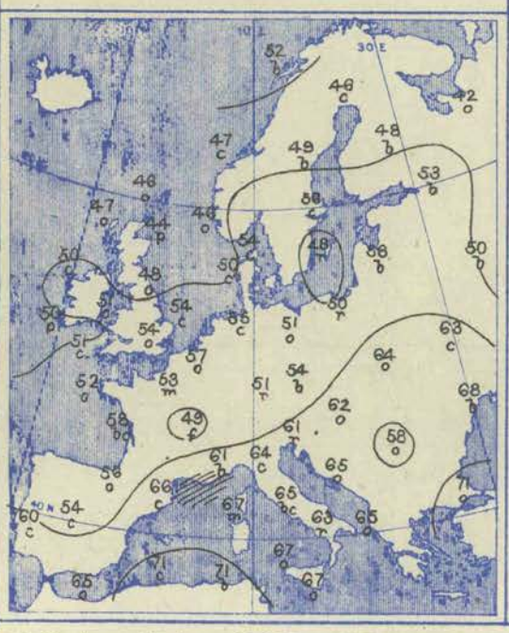
Temperature changing very little in our Islands; falling decidedly over the northern and eastern parts of the Continent. Morning readings highest, 72° at Algiers, 71° at La Calle, 70° at Constantinople, 69° at Barcelona, 68° at Palermo and Brindisi; above 60° on the Mediterranean coasts generally, and over the southern half of Russia. Lowest, 34° at Archangel, 40° at Bodö, 43° at Aberdeen and Shields, and below 50° at most of our northern and north-eastern stations. Rising later to 72° in London, and to between 65° and 70° over many parts of our south Midland counties, and to 70° at Nice.

Wind (1) North-Easterly over the Baltic; variable from between North and West over central Europe and the Adriatic; (2) very variable from between South-West and North-West over the British Islands, and very variable indeed over France. Still more variable over our Islands later (Westerly in the west, and South-Easterly in the east), but remaining light in force as a whole.

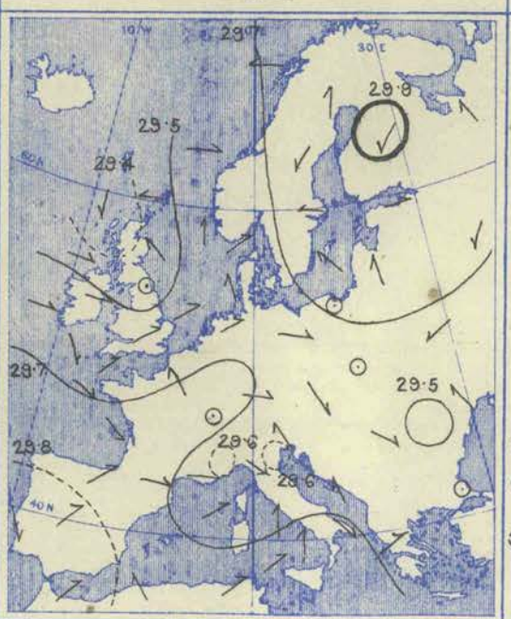
Barometer highest, 29·9 ins. and more at our extreme south-western stations, over the Bay of Biscay, and the northern parts of Africa, as well as at Stockholm and Hangö, and exceeding 29·8 ins. over England, and in a band stretching thence to Denmark and the southern parts of Sweden and Finland. Lowest, below 29·4 ins. over central Russia. Below 29·75 ins. over the west of Norway, and also over the Gulf of Genoa and the Riviera. Falling over our Islands and north-western Europe all day.

Wednesday, 26th May.

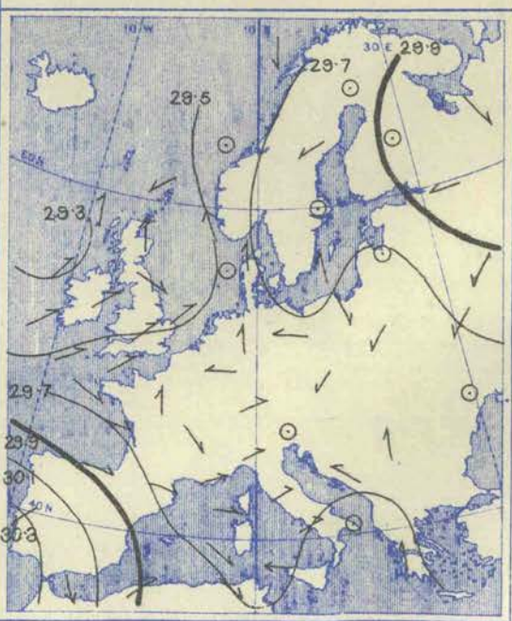
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine and bright over Finland, the Baltic Provinces, and several parts of Russia, fair over Spain and northern Africa; cloudy or overcast elsewhere, with some rain in many parts of our Islands, and some parts of central Europe. Considerable rain later in the western and south-western parts of the Kingdom; showers elsewhere; thunder and lightning in several parts of England and a solar halo at Oxford.

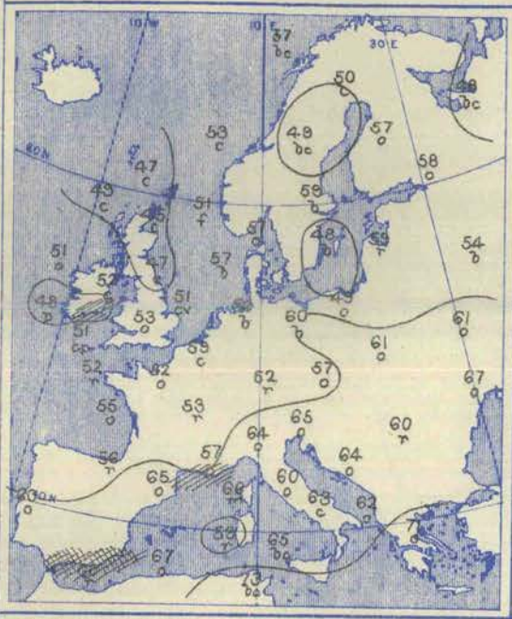
Temperature in morning highest, 71° at Algiers, La Calle, Brindisi, and Constantinople, and exceeding 60° at nearly all the Mediterranean stations; 68° at Nicolaieff, 64° at Odessa, 61° at Kharkov; 56° at Stockholm, 52° at Bodö; 55° to 54° over the eastern counties of England. Lowest, 42° at Archangel, 44° at Wick and Aberdeen; 48° at Malin Head and Shields, 50° at Liverpool. Failing to reach 50° in the extreme north of Scotland later, but touching 57° to 56° over the inland parts of England, 61° at Oxford and the North Foreland; 68° at Berlin, 71° at Paris, and 72° at Perpignan.

Wind very variable (1) South to West and North-West over the British Islands, and Southerly over the North Sea; (2) Easterly to South-Easterly (anticyclonic) over the Baltic; (3) extremely light and variable over the Continent as a whole. Becoming South-Westerly over England and Ireland later, Southerly over Scotland. Inclined to freshen in Ireland.

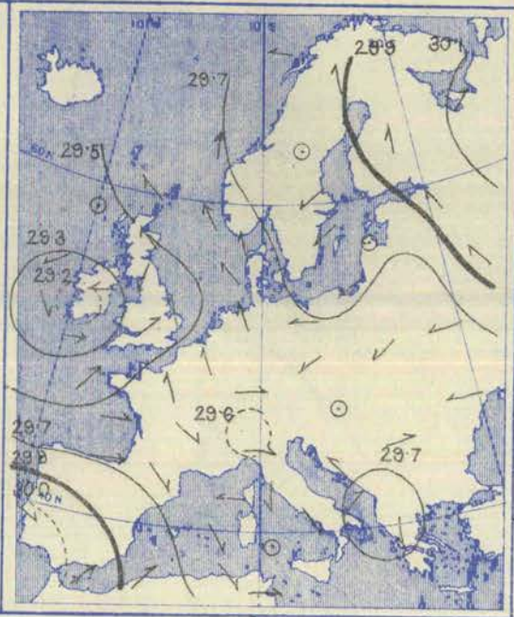
Barometer highest, 29·9 ins. and more to 29·7 ins. over northern Europe generally, and 29·8 ins. and more to 29·7 ins. over the Spanish Peninsula and the south-western and central parts of France. Lowest, below 29·4 ins. in a "V" shaped disturbance over Scotland, and 29·6 ins. and less in other depressions over the south-east of France, the north of Italy, and the south of Russia. Falling fast over the British Islands later; new, but not deep, depression approaching Ireland from the Atlantic.

Thursday, 27th May.

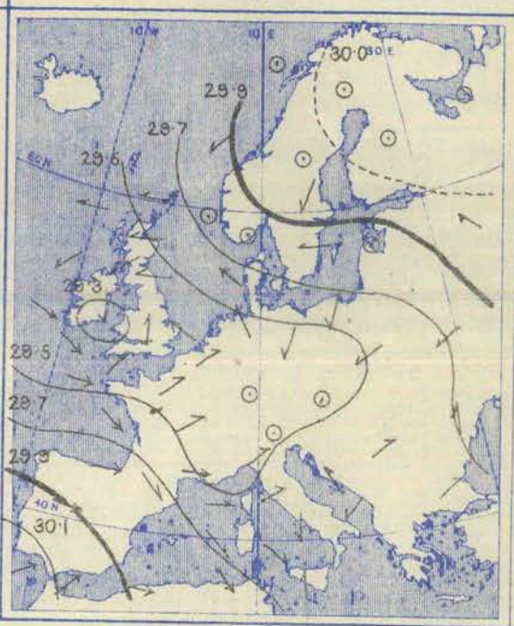
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over northern Europe, the Baltic, and north Germany, as well as over Scotland, and some parts of Italy; changeable and showery over Ireland, England, several parts of France, and some parts of the Mediterranean; dull over Austria-Hungary. Rain later in considerable quantities over France and central Europe, and in smaller quantities over our Islands—but with considerable bright intervals over Great Britain; thunder reported at York.

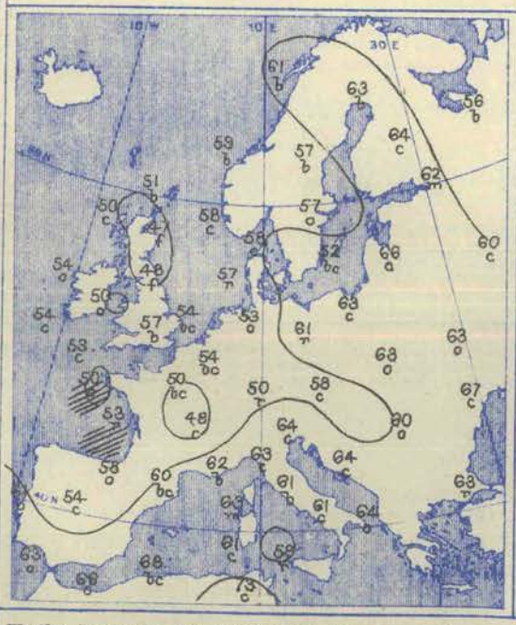
Temperature risen over Scotland, Germany, and northern Europe. Morning readings highest, 71° at Athens, 68° at Odessa, 67° at Algiers, and above 60° at all stations over the Mediterranean and south-eastern Europe; 58° at St. Petersburgh, 57° at Bodö. Lowest, 45° at Aberdeen, 47° at Sumburgh Head and Shields, 48° at York, Valencia, and Parsonstown. Rising later to between 60° and 65° over many parts of Great Britain, to 66° at Paris, to 70° at Nice, 72° at Fanö and Berlin, and touching 75° at Palermo, and 88° at Sfax.

Wind North-Easterly to South-Easterly over northern Europe, Westerly to South-Westerly over Spain and Algeria; blowing a gale in the latter region. Very variable over central Europe, and a well-marked cyclonic circulation prevailing over the British Islands. Very little change later.

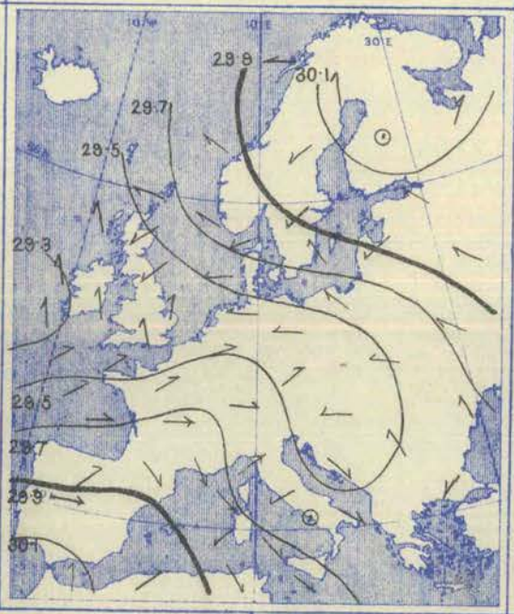
Barometer highest, 30·1 ins. to 29·8 ins. over northern Russia, Finland, and Sweden, as well as over the south-western half of the Spanish Peninsula and neighbouring parts of the Atlantic. Lowest, about 29·1 ins. in a depression having its central area very near to Roche's Point, and below 29·6 ins. over nearly the whole of France, Austria, and Italy. Depression in west moving eastwards later, but becoming shallower; the low pressure area over the Continent growing rather deeper.

Friday, 28th May.

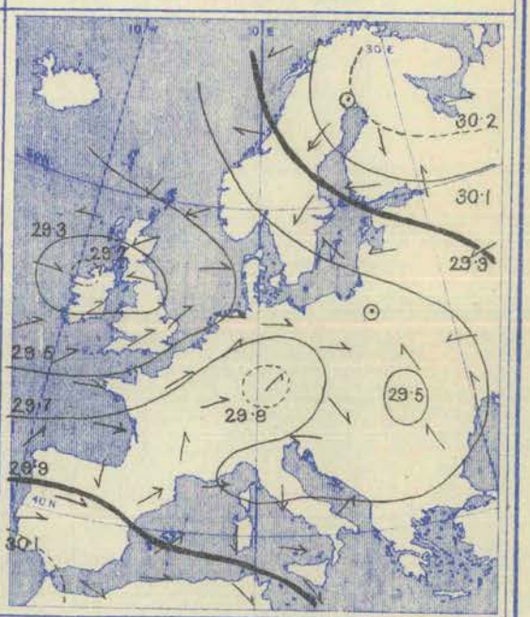
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over northern Europe generally, as well as over the southern and western parts of the Mediterranean, cloudy more or less elsewhere, showery in several parts of the British Islands, the Netherlands, and central Europe. Rain falling later over the British Islands and north-western Europe generally, the falls being large over the north-western parts of our Islands and at Berlin, and considerable at many of the western stations; thunder and lightning occurring in many parts of England.

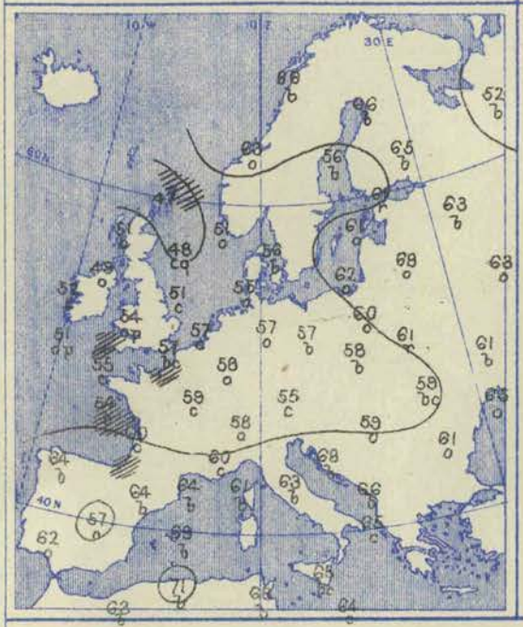
Temperature in morning highest, (1) 73° at Sfax, 68° at Algiers, 66° at Barcelona, and above 60° over the Mediterranean as a whole; (2) 68° at Memel, 66° at Riga, and above 60° at most of the Russian stations and in Finland, 61° at Bodo. Lowest, 47° at Aberdeen, 48° at Wick, 49° at Liverpool, and 50° at Stornoway and several of our other stations. Changing fitfully later, but rising to 70° at Christiansand and Wisby, and 78° at Perpignan, but not exceeding 64° in any part of the British Islands.

Wind moderate to light from the Eastward over all the northern parts of Europe and the British Islands, but South-Easterly to South-Westerly over England, South-Westerly to Westerly over France. A well defined cyclonic circulation prevailed over the Riviera and the northern parts of the Mediterranean.

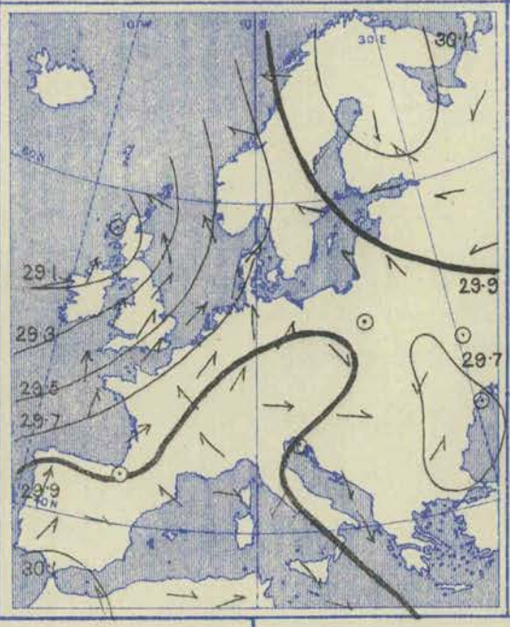
Barometer highest, 30·1 ins. and more to 29·8 ins.: (1) over northern Europe, (2) over the north of Africa and the Spanish Peninsula. Lowest, below 29·3 ins. over the west of Ireland and adjacent parts of the Atlantic; below 29·4 ins. over England; 29·4 ins. to 29·5 ins. in a hollow stretching from the east of England over the Netherlands, Germany, and Austria, and below 29·5 ins. over the Riviera. Rising over France and the southern parts of England later, falling in Scotland and Scandinavia.

Saturday, 29th May.

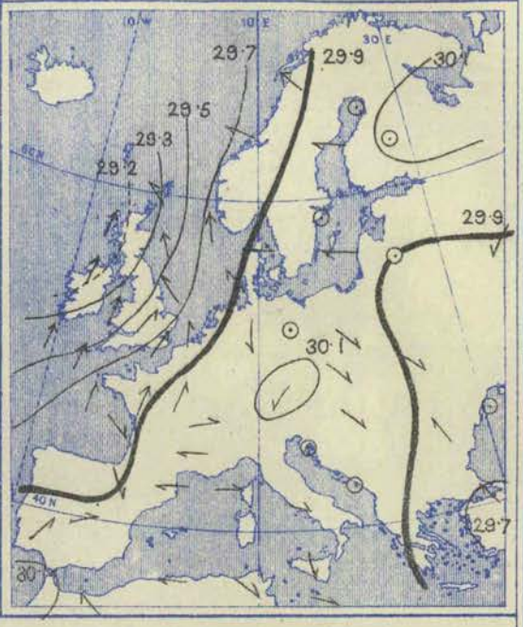
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning changeable over the whole of our Islands and the greater part of north-western Europe, but temporarily fine over England, rather squally and showery at our northern and western stations and over Brittany, fine and bright over northern Europe and also over the Mediterranean. Rain falling later all over the United Kingdom, Brittany, and the north of France, as well as over Sweden—rather heavily at Stockholm, Loughborough, Valencia, and Paris; thunder occurring at Parsonstown.

Temperature risen decidedly over France, fallen a little over central Europe. Morning readings highest, 71° at Algiers, 69° at Barcelona, 68° at Trieste, and above 60° over Russia; 66° at Haparanda. Lowest, (1) 47° at Sumburgh Head, 48° at Aberdeen, (2) 52° at Archangel. Rising during day to between 63° and 66° in many parts of our Islands, and to 71° at Paris, but touching 72° at Berlin, 73° at Rochefort, 78° at Lyons, and 81° at Biarritz.

Wind (1) South-Westerly over the Bay of Biscay and France, South-Westerly to Southerly over our Islands—strong at the north-western stations, moderate elsewhere; South-Easterly to Easterly over northern Europe, and fresh as a whole. Light and variable, but cyclonic, over south-eastern Europe; light and anticyclonic from the South-Westward over Spain. Increasing to a gale later over the Minch, and blowing very strongly on our north-western coasts generally; freshening over England also.

Barometer highest, 30·1 ins. and more to 29·9 ins., both over south-western and northern Europe. Lowest, (1) 29·1 ins. and less off the north-west of Scotland, and (2) below 29·7 ins. over the Black Sea and several adjacent parts of south-eastern Europe. Gradients rather steep over the British Islands and English Channel. Rising later over the United Kingdom and north-western Europe, but general distribution not of a "settled" type.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

In the course of this week there has been an important change in the distribution of pressure, and consequently in the wind and weather, over Europe. The high-pressure system, which was prevalent in the north and north-west at the close of the previous week, continued in force until Monday night, while low pressures were recorded over Russia and south-eastern Europe. The dominant wind current over our Islands was North-Easterly to Northerly. The weather was, as a whole, fair over our Islands, while rain fell over the Continent—the amount recorded in the south and east of France (where thunderstorms were general) exceeding an inch at many stations.

By Tuesday, however, a change had occurred. The low-pressure systems over south-eastern Europe were partially filling up, the high-pressure area in the north-west had given way entirely, and Southerly to Westerly breezes spread over our Islands and the neighbouring parts of the Continent. On Wednesday there were two high-pressure systems—one over northern, the other over south-western Europe, while very shallow low-pressure systems became prevalent over the north-western countries of Europe, and still held over the south-eastern countries, also the north-western systems increased both in intensity and complexity later, and while thunderstorms and showers spread over the British Islands, their neighbourhood, and many parts of France, the weather over south-eastern Europe improved, and that in the north and the south-west became very warm.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 122.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	35·7	−1·6	31	−2	EASTBOURNE	42·3	−9·1	38	− 9
OSWALDKIRK (Yorkshire)	37·8	−2·0	33	−2	VENTNOR	46·4	?	42	?
WORKSOP	40·8	+1·0	36	0	SOUTHPORT	66·6	?	58	?
THURCASTON (Leicestershire)	41·3	−0·4	37	−1	COLWYN BAY	62·3	?	55	?
MARGATE	45·9	+1·1	41	0	NEWQUAY	57·3	+ 8·8	52	+ 6
WESTBOURNE (Sussex)	45·2*	−6·2	41*	−7	TORQUAY	46·9*	− 3·3	43*	− 3
BRIGHTON	43·8	−5·3	39	−6	GUERNSEY	*		*	

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 22.] *Third Series.* WEEK ENDING SATURDAY, JUNE 5TH, 1897. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 128.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	80	38	61·0	45·5	52·7	2 above	75	+25	0	− 3	408	+ 8	615	− 2
	1. SCOTLAND, EAST	81	37	62·9	47·2	54·5	3 above	88	+23	0	− 2	495	− 16	661	+ 13
	2. ENGLAND, N.E.	73	40	60·8	47·9	53·9	1 above	83	+21	0	− 1	515	+ 17	471	− 77
	3. ENGLAND, EAST	77	45	67·1	50·5	58·2	4 above	113	+33	0	− 2	699	+ 54	493	−123
	4. MIDLAND COUNTIES	78	41	66·7	49·1	57·3	3 above	107	+25	0	− 1	697	+ 15	503	−115
	5. ENGLAND, SOUTH	76	46	66·2	51·7	58·5	4 above	116	+28	0	− 1	782	+ 60	297	−179
Principal Grazing, &c., Districts.	**6.** SCOTLAND, WEST	76	43	63·3	49·1	55·7	3 above	96	+26	0	− 1	540	− 14	441	− 20
	7. ENGLAND, N.W.	74	44	63·6	50·2	56·4	3 above	101	+26	0	− 1	593	+ 19	367	− 91
	8. ENGLAND, S.W.	78	42	65·1	49·6	56·9	3 above	104	+22	0	0	775	+ 62	223	−138
	9. IRELAND, NORTH	74	41	62·6	48·6	55·1	2 above	92	+20	0	− 1	597	− 36	403	+ 9
	10. IRELAND, SOUTH	74	41	63·3	48·7	55·5	1 above	95	+16	0	− 1	793	+ 22	242	− 57
	—CHANNEL ISLANDS	69	50	63·5	52·9	57·8	2 above	111	+24	0	0	979	+146	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 128.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	2	1	5 less	98	− 3	16·5	− 2·6	53	+16	44	+13	549	+ 84	31	+ 5
	1. SCOTLAND, EAST	3	3	2 less	88	+ 7	10·5	− 1·2	42	0	35	0	545	+ 14	30	0
	2. ENGLAND, N.E.	3	4	1 less	86	+ 9	9·1	− 0.2	41	0	35	0	579	+ 53	32	+ 3
	3 ENGLAND, EAST	2	4	1 less	85	+10	9·9	+ 0·9	36	−12	32	−11	612	+ 7	34	0
	4. MIDLAND COUNTIES	3	7	2 more	82	+10	11·4	+ 1·1	35	−10	31	− 9	593	+ 40	33	+ 2
	5. ENGLAND, SOUTH	3	9	4 more	80*	+10	12·7	+ 2·0	36	−13	32	−13	638	+ 5	35	0
Principal Grazing, &c., Districts.	**6.** SCOTLAND, WEST	5	7	0 (average)	92	+ 6	16·5	− 2·2	42	− 3	35	− 4	599	+ 42	33	+ 2
	7. ENGLAND, N.W.	4	9	4 more	93	+15	13·0	+ 1·1	41	− 6	35	− 6	617	+ 63	34	+ 4
	8. ENGLAND, S.W.	3	5	1 less	99	+20	18·8	+ 4·5	64	+14	57	+12	645	− 23	36	− 1
	9. IRELAND, NORTH	3	7	0 (average)	102	+11	15·3	+ 1·5	46	+ 4	39	+ 2	580	+ 47	32	+ 2
	10. IRELAND, SOUTH	3	6	0 (average)	95	+10	17·6	+ 2·3	47	+ 2	41	+ 1	614	0	34	0
	—CHANNEL ISLANDS	4	5	1 more	106	+20	16·1	+ 3·7	56	−16	51	−16	647*	−125	35	− 7

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was rather unsettled and rainy, with occasional thunder and lightning, during the earlier part of the week, but later on the condition became dry and fair very generally.

Temperature was above the mean, the excess varying from 1° in England N.E. and Ireland S. to 3° in most other districts and to 4° in England E. and S. The highest of the maxima were registered during the latter part of the period, and ranged from 81° in Scotland E., 80° in Scotland N., and 78° in the Midland counties and England S.W. to 73° in England N.E., and 69° in the Channel Islands. The lowest of the minima, which were recorded on rather irregular dates, ranged from 37° in Scotland E. to 46° in England S. and to 50° in the Channel Islands.

Rainfall exceeded the mean in England S. and N.W., the Midland counties and the Channel Islands, and just equalled it over Ireland and in Scotland W.; in the other districts there was a deficit, that in Scotland N. being very marked.

Bright Sunshine was less than the normal in most districts but exceeded it in Ireland, in Scotland N. and England S.W. The percentage of the possible duration ranged from 57 in England S.W. to 31 in the Midland counties.

Barometer and Wind.—During the earlier days of the period depressions spread over the south-western and southern parts of our Islands from the South-Westward, and, the barometer being highest in the east, Southerly to South-Easterly winds were prevalent. Later on, however, the barometer became highest in the north, the depressions disappeared, and the wind became moderate or light from the Northward or North-Eastward.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 127 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0 SCOTLAND, N.	Sumburgh Head	54	41	51·7	44·7	48·0	+ 0·4	42	0	2	0·20	−0·27	*	*	*	*
	Stornoway	66	40	59·0	44·3	51·1	+ 1·4	64	0	1	0·05	−0·58	66·8	+24·9	55	+21
	Wick	65	40	57·0	43·7	49·9	+ 0·2	55	0	2	0·24	−0·14	*	*	*	*
	Lairg Ⓢ	80	38	66·8	44·7	55·0	+ 4·9	91	0	1	0·10	−0·41	*	*	*	*
	Glencarron Ⓢ	73	44	66·0	45·8	55·2	+ 4·3	92	0	1	0·08	−1·13	*	*	*	*
	Fort Augustus Ⓢ	70	45	61·1	47·0	53·6	+ 2·0	81	0	3	0·12	−0·29	42·6	+14·1	36	+12
	Fort William Ⓢ	68	46	65·3	48·6	56·4	+ 3·9	101	0	2	0·15	−0·67	50·4	+10·9	42	+ 9
1. SCOTLAND, E.	Nairn	71	41	61·9	45·7	53·2	+ 1·0	78	0	3	0·11	−0·33		*	*	*
	Aberdeen	62	44	57·9	46·7	51·9	+ 0·2	69	0	3	0·30	−0·18	48·2	+ 3·2	40	+ 2
	Braemar Ⓢ	73	37	65·0	45·3	54·5	+ 4·8	88	0	2	0·37	−0·11	53·3†	+13·3†	44†	+ 7†
	Ochtertyre Ⓢ	81	43	70·3	50·4	59·7	+ 6·4	124	0	4	0·55	−0·10	*	*	*	*
	Leith	71	46	61·3	48·0	54·2	+ 0·7	85	0	3	0·11	−0·36	*	*	*	*
	Marchmont Ⓢ	69	44	61·1	47·1	53·6	+ 2·1	81	0	4	0·29	−0·31	32·0	−10·8	27	−10
2. ENGLAND, N.E.	Alnwick Castle	63	40	58·6	47·0	52·4	+ 1·2	73	0	3	0·41	+0·12	*	*	*	*
	Durham	69	45	62·7	47·0	54·3	+ 1·5	86	0	4	0·85	+0·33	32·9	+ 7·2	28	+ 7
	Shields	64	44	57·0	46·3	51·3	− 0·3	65	0	3	0·36	−0·06	*	*	*	*
	Scarborough Ⓜ	66	46	58·7	48·0	53·0	+ 0·3	77	0	2	0·18	−0·32	*	*	*	*
	York	73	46	68·3	49·4	58·2	+ 4·3	113	0	3	0·30	−0·22	44·9	+ 1·7	39	+ 1
	Spurn Head	65	47	59·3	49·4	54·0	+ 1·3	84	0	2	0·34	−0·09	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	77	48	68·9	49·8	58·7	+ 4·5	117	0	2	0·23	−0·29	38·8	− 9·4	34	− 9
	Yarmouth	65	50	62·0	52·1	56·7	+ 3·0	103	0	2	0·18	−0·29	*	*	*	*
	Geldeston	74	49	69·2	51·4	59·7	+ 5·6	124	0	2	0·06	−0·38	44·6	− 6·9	39	− 8
	Cambridge	73	48	69·0	50·1	58·9	+ 3·5	118	0	2	0·90	+0·40	31·8	−14·4	28	−13
	Rothamsted	70	45	66·3	49·3	57·2	+ 2·8	106	0	4	0·74	+0·26	29·6	−15·9	26	−15
4. MIDLAND COUNTIES	Harrogate Ⓜ	71	45	64·6	47·8	55·6	+ 2·4	95	0	4	0·26	?	41·9	?	36	?
	Bawtry (Hesley Hall)	74	47	67·4	50·7	58·5	+ 3·8	116	0	3	0·68	+0·14	*	*	*	*
	Loughborough	74	48	67·7	50·1	58·3	+ 2·6	114	0	3	0·57	+0·04	*	*	*	*
	Stamford (Duddington)	75	48	67·9	50·0	58·3	+ 3·5	114	0	3	0·83	+0·30	*	*	*	*
	Cheadle Ⓜ	71	46	64·2	50·2	56·7	+ 3·9	103	0	3	0·66	+0·03	*	*	*	*
	Shirley (near Solihull)	71	45	65·1	48·6	56·3	+ 1·7	100	0	4	0·60	?	*	*	*	*
	Churchstoke Ⓜ	74	41	67·2	47·3	56·6	+ 3·7	102	0	3	0·81	+0·25	48·3	+ 4·4	42	+ 3
	Hereford Ⓜ	78	42	69·6	48·2	58·2	+ 2·9	113	0	3	1·10	+0·57	*	*	*	*
	Cirencester	72	45	66·3	48·9	57·0	+ 3·4	105	0	4	0·86	+0·31	32·3	−13·8	29	−13
	Oxford	72	47	67·0	49·6	57·7	+ 2·8	110	0	3	0·79	+0·26	29·8	−15·4	26	−15
5. ENGLAND, S.	London	73	48	69·6	52·0	60·2	+ 3·7	127	0	3	0·83	+0·35	33·0†	− 9·1†	29†	− 9†
	North Foreland	73	50	64·1	52·0	57·6	+ 3·7	109	0	2	0·05	?	*	*	*	*
	Dungeness	71	51	65·3	52·9	58·7	+ 3·9	117	0	2	0·14	−0·31	*	*	*	*
	Hastings (St. Leonards)	72	50	66·4	51·8	58·6	+ 4·1	116	0	4	0·93	+0·48	33·0	−21·8	29	−21
	Southampton	76	47	68·2	51·8	59·4	+ 3·4	122	0	4	1·00	+0·54	32·3	−17·7	29	−17
	Hurst Castle	74	47	65·3	52·7	58·6	+ 3·1	116	0	3	1·92	+1·47	*	*	*	*
	Shaftesbury Ⓜ	72	46	64·8	49·0	56·4	+ 3·0	101	0	3	1·13	+0·71	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sumart)	69	46	65·2	48·6	56·3	+ 3·7	100	0	4	0·16	−0·76	*	*	*	*
	Glasgow	76	47	63·0	49·2	55·6	+ 3·1	95	0	4	1·22	+0·52	36·8	− 0·7	31	− 1
	Ardrossan	69	48	59·4	49·6	54·2	+ 1·0	85	0	5	1·12	+0·52	*	*	*	*
	Glenlee Ⓢ	74	43	65·4	49·1	56·7	+ 4·2	103	0	5	0·96	+0·14	*	*	*	*
	Gilcrux (Cumberland)	72	47	64·0	49·8	56·4	+ 3·9	101	0	7	0·55	?	43·3	?	37	?
	Douglas Isle of Man	72	46	62·9	48·3	55·1	+ 2·4	92	0	2	0·42	−0·16	44·6	− 6·4	38	− 7
7. ENGLAND, N.W.	Stonyhurst	73	47	65·3	50·6	57·4	+ 4·0	108	0	4	1·02	+0·22	40·5	− 4·2	35	− 4
	Blackpool Ⓜ	68	44	64·8	49·5	56·6	+ 3·1	102	0	4	1·50	+0·98	40·7	− 4·2	35	− 4
	Manchester (Prestwich)	74	48	65·4	50·7	57·5	+ 3·9	109	0	4	0·97	+0·27	30·3	?	26	?
	Liverpool Obsy. (Bidston)	67	46	62·9	50·4	56·2	+ 2·3	99	0	4	0·72	+0·20	*	*	*	*
	Llandudno Ⓜ	68	45	63·8	53·8	56·9	+ 2·4	104	0	4	0·50	+0·02	*	*	*	*
	Holyhead	63	47	59·3	49·3	54·0	+ 0·1	84	0	3	0·90	+0·42	*	*	*	*
8. ENGLAND, S.W.	Llandovery	78	42	70·7	49·0	59·1	+ 4·8	120	0	3	0·69	−0·01	*	*	*	*
	Pembroke	67	48	60·4	50·6	55·2	+ 1·7	92	0	2	0·16	−0·34	64·0	+13·0	57	+12
	Clifton	75	46	66·7	50·9	58·3	+ 4·0	114	0	4	1·17	+0·59	*	*	*	*
	Arlington (N. Devon)	71	42	65·0	46·3	55·0	+ 2·3	91	0	2	0·36	−0·41	*	*	*	*
	Cullompton Ⓜ	76	43	67·9	48·4	57·7	+ 3·0	110	0	3	0·56	+0·12	51·7	+ 5·2	46	+ 4
	Falmouth	68	49	64·3	50·4	56·9	+ 2·2	104	0	0	—	−0·52	81·0	+28·1	73	+25
	Plymouth	71	47	63·8	50·5	56·7	+ 0·2	103	0	3	0·33	−0·15	69·3	+20·4	62	+17
	Prawle Point	69	47	62·0	50·9	56·1	+ 2·2	99	0	3	0·54	+0·12	*	*	*	*
9. IRELAND, N.	Malin Head	60	46	58·3	48·0	52·8	+ 0·3	76	0	3	0·89	?	*	*	*	*
	Londonderry	72	46	64·8	50·8	57·3	+ 2·8	107	0	4	0·96	+0·34	*	*	*	*
	Edenfel (Omagh)	73	42	64·9	49·6	56·7	+ 5·2	103	0	5	0·89	+0·28	*	*	*	*
	Belmullet	68	46	61·9	48·3	54·6	+ 0·9	88	0	2	0·14	−0·59	*	*	*	*
	Markree Castle	71	41	62·8	47·7	54·7	+ 1·7	89	0	4	0·76	+0·08	44·3	+ 2·5	38	+ 2
	Armagh	73	44	64·4	48·6	56·0	+ 2·9	98	0	4	0·72	+0·24	46·7	+ 5·2	40	+ 4
	Donaghadee	66	47	58·9	48·3	53·2	0·0	78	0	2	0·52	−0·04	*	*	*	*
	Edgeworthstown	74	42	65·0	47·1	55·4	+ 2·9	94	0	3	0·28	−0·40	*	*	*	*
10. IRELAND, S.	Dublin	69	44	63·2	49·9	56·1	+ 1·2	99	0	5	0·55	+0·05	39·5	− 7·9	35	− 7
	Parsonstown	73	43	65·7	48·0	56·2	+ 2·6	99	0	2	0·05	−0·55	43·7	+ 2·9	38	+ 3
	Kilkenny	74	43	64·3	48·3	55·7	+ 1·8	96	0	2	0·60	+0·10	*	*	*	*
	Roche's Point	67	50	60·9	50·7	55·4	+ 0·1	94	0	2	0·32	−0·41	*	*	*	*
	Valencia	67	43	62·0	48·3	54·7	− 0·2	89	0	5	1·12	+0·48	57·9	+10·1	51	+ 8
	Killarney	72	41	63·9	47·2	55·0	+ 0·8	91	0	4	1·06	?	*	*	*	*
	Foynes	?	45	?	46·5	?	?	?	?	3	0·21	?	*	*	*	*
CHANNEL ISLANDS.	Scilly (St. Mary's)	65	51	61·9	52·3	56·8	+ 1·8	104	0	3	0·16	−0·28	82·4	?	74	?
	Jersey	69	50	65·1	53·4	58·8	+ 2·7	118	0	4	0·87	+0·39	44·7	−12·9	41	−12

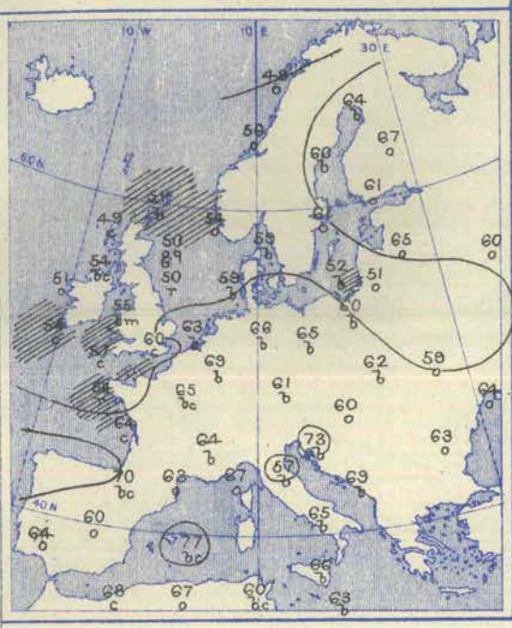
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

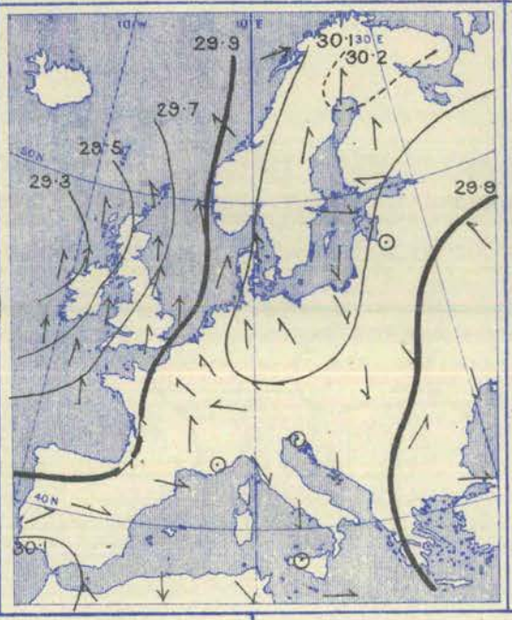
† The Sunshine values at Braemar and Harrogate are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 30th May.

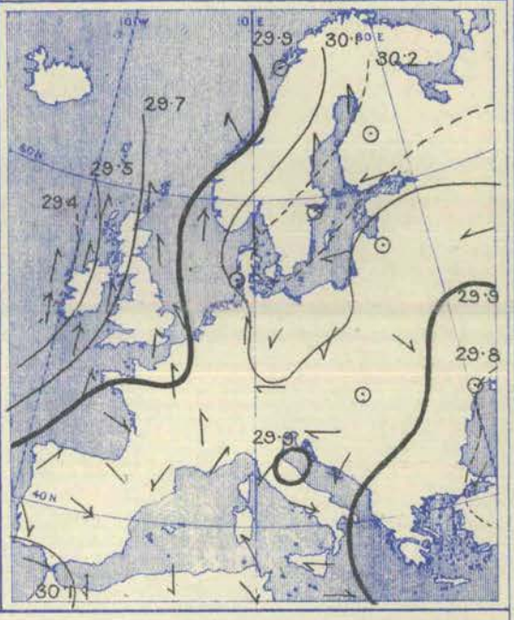
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine at most of our north-western stations, but cloudy in other parts of the United Kingdom, with rain over the northern parts of England and showers on our south-west coasts. Fine in most of the Continental countries, but dull in Russia and also over the Spanish Peninsula. Thunderstorms occurring later in many parts of England and also in the south of France, and rain falling in Ireland and Scotland.

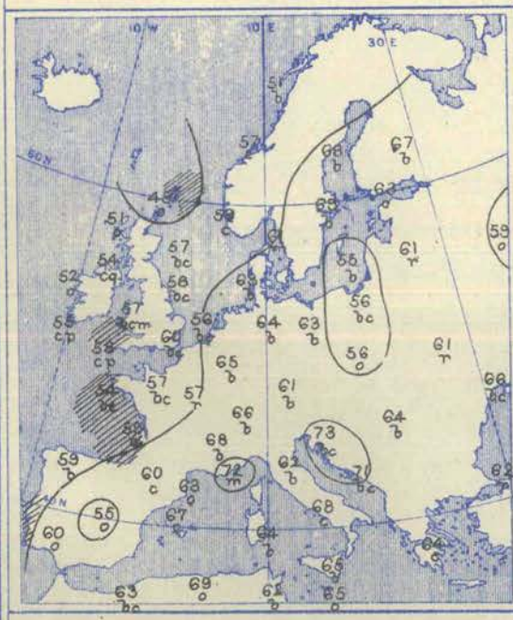
Temperature risen over all but the northern and eastern parts of Europe. Morning readings highest, (1) 77° at Palma, 76° at Bilbao, and 75° at Sfax; (2) 70° at Uleaborg, and 67° at Kuopio; (3) 69° at Brussels and 68° at Münster. Lowest, 49° at Bodo and Stornoway, 50° at Aberdeen and Shields, and 51° at Sumburgh Head, Wick, and Belmullet. Rising during day to 65° and upwards in most parts of Great Britain, and to 72° in London. Exceeding 75° at many of the Continental stations; reaching 86° at Gap and 88° at Nancy.

Wind Southerly (South-Easterly to South-Westerly) over western and northern Europe generally, and fresh or strong in force on many parts of our own western coasts. Light from the northward in eastern Germany and also in Italy; calm or variable in Austria and the south of France; South-Westerly or Westerly over the Spanish Peninsula. Subsequently veering to the Westward in the eastern parts of the English Channel and to the North-Westward in the west of France; no important change occurring elsewhere

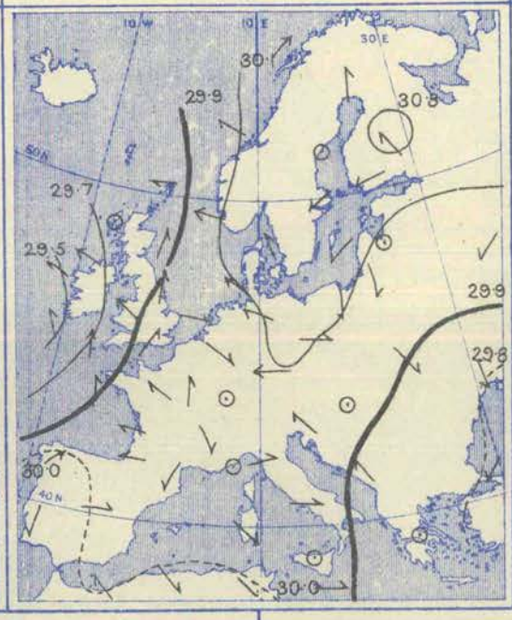
Barometer highest, 30·2 ins. and upwards in Lapland; 30·1 ins. and upwards in an anticyclone lying over the whole of Sweden, Finland and Germany. Lowest, 29·3 ins. and less in a depression lying off the north-west of Ireland, 29·8 ins. and less in a shallow system over the Black Sea. Depression off Irish coasts subsequently moving away to the north-westward; shallow secondary disturbance forming over the eastern part of the English Channel, and afterwards passing north-eastward across our south-eastern counties.

Monday, 31st May.

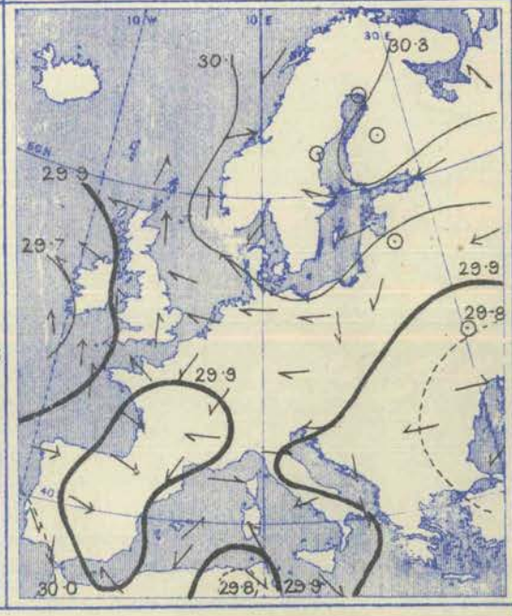
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but showery at several of our south-western stations. Dull over the Spanish Peninsula, as well as in many parts of Russia and eastern Austria, with rain at Riga and Lemberg. Solar halo seen during day at Oxford, and a parhelian and faint mock sun in London. Thunderstorms and heavy rain occurring in evening or night in many parts of England and France.

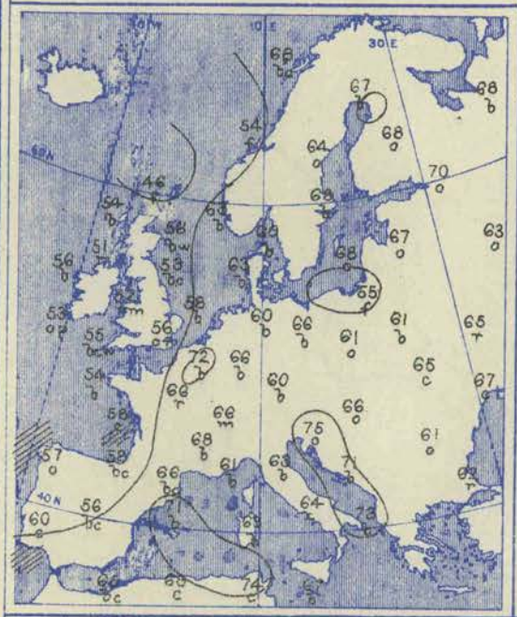
Temperature fallen over the Spanish Peninsula, the west and north of France and north Germany, but risen in most other localities. Morning readings highest, (1) 75° at Sfax, 72° at Toulon, 71° at Nice, and 69° at Algiers; (2) 69° at Stockholm, and 68° at Hernösand; above 65° in many parts of Sweden and Northern Russia. Lowest, 49° at Sumburgh Head, 51° at Stornoway and Wick, and 52° at Belmullet and Roche's Point. Rising during day to 65° and upwards in many parts of Great Britain, and exceeding 70° in a few places; exceeding 80° in many parts of central and southern Europe, and reaching 88° at Nancy.

Wind Southerly or South-Easterly over western Europe as a whole, and fresh or strong in force on our own western coasts, as well as on the eastern shores of the North Sea. Light from between North and East over most other parts of the Continent, but rather variable over the Spanish Peninsula and the extreme south of France. Distinct cyclonic circulation appearing later over France; no decided change elsewhere.

Barometer highest, 30·33 ins. at Kuopio; 30·1 ins. and upwards in an anticyclone lying over northern Europe generally. Lowest, 29·5 ins. and less in a depression off the west of Ireland; 29·8 ins. and less in two shallow systems lying respectively over Asia Minor and the extreme south of Russia. Irish depression subsequently moving away to the westward, but new disturbance forming over France and spreading steadily northwards.

Tuesday, 1st June.

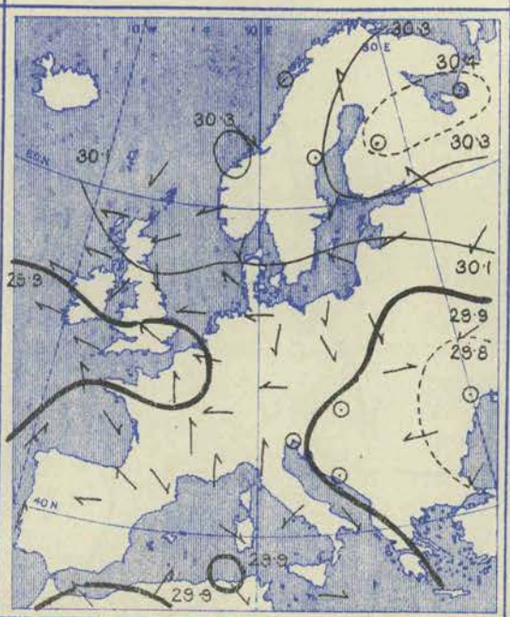
Temperature and Weather. — 8 a.m.

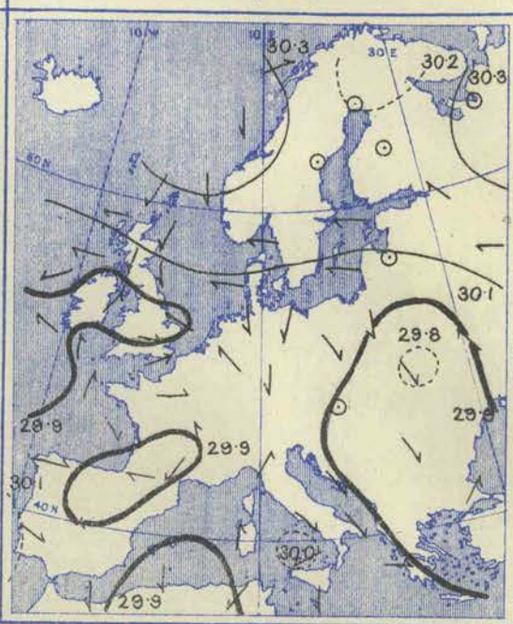


Weather in morning dull and rainy over the greater part of England, Wales, and the north of France, with thunder at Loughborough. Fine in most other parts of western, central, and southern Europe, but dull over the eastern parts of the Continent, with rain at Swinemünde, Kiev, and Constantinople. Considerable amounts of rain falling later at several of our own and the French stations, with thunderstorms in places. Heavy rain reported in some parts of Austria.

Temperature fallen in England but changed very irregularly elsewhere. Morning readings highest, (1) 81° at Sfax, 75° at Trieste and Palma, and 74° at La Calle; (2) 75° at Uleaborg, 70° at St. Petersburg, and 68° at several stations in Scandinavia and northern Russia. Lowest, 46° at Sumburgh Head, 51° at Malin Head, Prawle Point and Jersey, and 52° at Leith, Loughborough, Donaghadee and Holyhead. Rising during day to 65° and upwards in many parts of England, and to 78° at Cambridge and the North Foreland. Reaching 75° or more in several of the central and southern countries, the highest readings reported being 90° at Gap and 87° at Nancy.

Barometer and Wind. — 8 a.m. and 6 p.m.



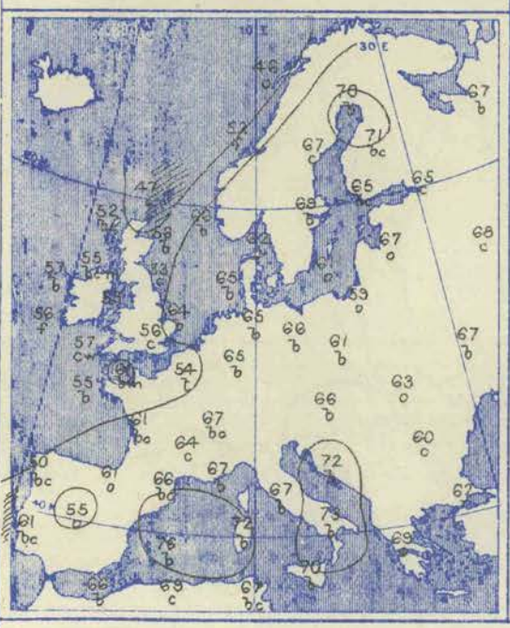


Wind light to moderate from the Eastward or North-Eastward over the greater part of our Islands, as well as over the Netherlands, Denmark, the Baltic, Western Russia, and the South of Scandinavia; calm or variable over the northern parts of Russia and Scandinavia. Light from the Northward in Germany, Austria and Italy; variable over the Spanish Peninsula and the southern parts of France. Subsequently shifting to the South-Westward in the south-east of England, no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in the extreme north of Russia; 30·1 ins. and upwards in an anticyclone lying over the whole of northern Europe and extending westwards over Scotland. Lowest, 29·3 ins. and less in a large shallow depression over the Black Sea and all the neighbouring provinces, 29·9 ins. and less in another shallow system over the south of our Islands, the Netherlands, and the north of France. Latter system moving northwards later: new disturbance forming over south of France and the north-east of Spain.

Wednesday, 2nd June.

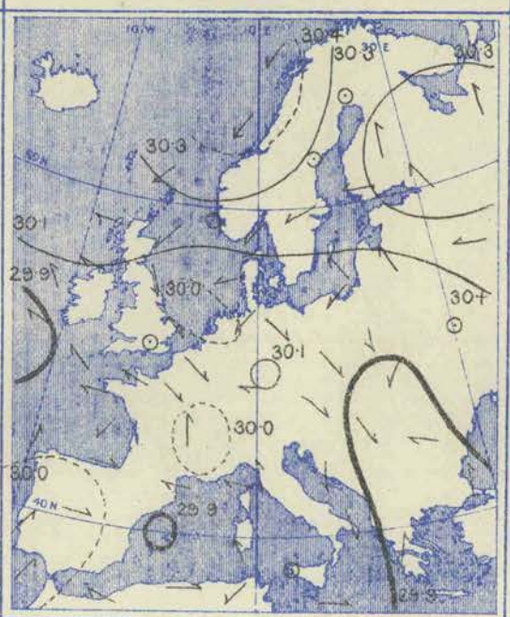
Temperature and Weather. — 8 a.m.

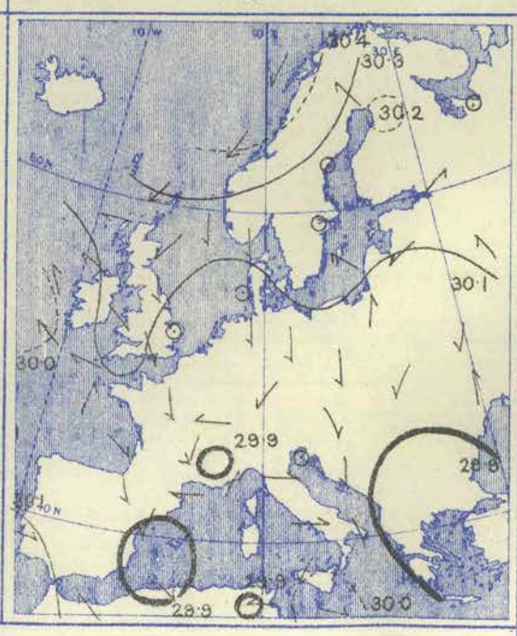


Weather in morning fair or fine over Europe as a whole, but dull in several parts of Great Britain, France and Spain, and also over the Baltic and the South of Sweden. Rain falling at Limoges and Constantinople, and passing showers at Valencia (Ireland); thunder reported at Paris. A little rain falling later at a few of our own western and northern stations, with thunder at Ardrossan; thunderstorms occurring at Karlstad and the Scaw, and lightning seen in many parts of France. Heavy rain falling at Brussels.

Temperature changed rather irregularly. Morning readings highest, (1) 79° at Sfax, 76° at Palma, 74° at La Calle, (2) 71° at Kuopio, and 70° at Uleaborg and Haparanda; above 65° at many of the Continental stations, but below 60° in central Spain. Lowest, 46° at Bödo, 47° at Sumburgh Head and Wick, 50° at Nairn, 51° at Donaghadee. Rising during day to between 65° and 70° at several of the English and Irish stations, and to 73° at York; exceeding 85° in many parts of central and southern Europe, and reaching 91° at Gap.

Barometer and Wind. — 8 a.m. and 6 p.m.



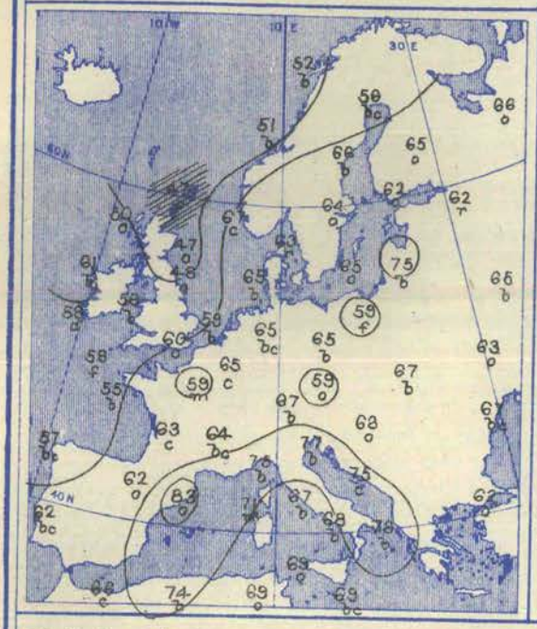


Wind light to fresh from the North-Eastward or Eastward over Scotland and the northern parts of the Continent generally, but calm over the northern parts of Sweden. Light from the Westward over the east and south-east of England and the neighbouring parts of the Continent, and from the North-Westward at many of the German and Austrian stations; Northerly or North-Easterly in Italy. Southerly or South-Westerly over the western parts of the Spanish Peninsula; Easterly in the west of France; South-Easterly over the south-western parts of our Islands. No important change occurring over western Europe during day.

Barometer highest, 30·4 ins. and upwards in the west of Norway; 30·1 ins. and upwards in an anticyclone embracing the greater part of northern Europe, and extending westwards over Scotland. Lowest, 29·9 ins. and less in a large shallow system over south-eastern Europe, and also in a small depression over the Balearic Islands; distribution of pressure over the central parts of Europe very irregular. No important change occurring later.

Thursday, 3rd June.

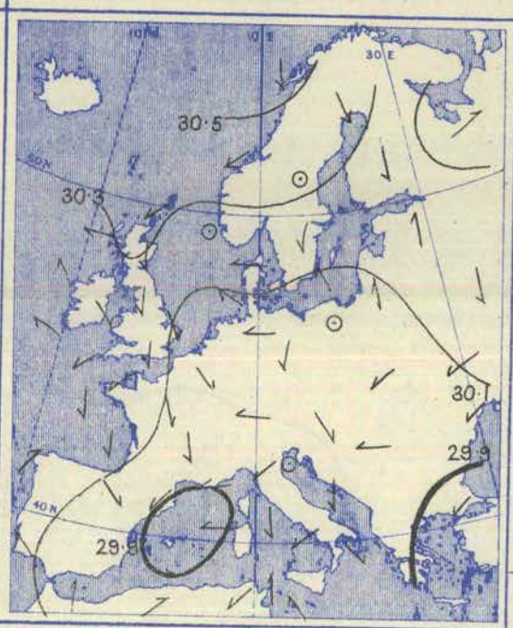
Temperature and Weather. 8 a.m.

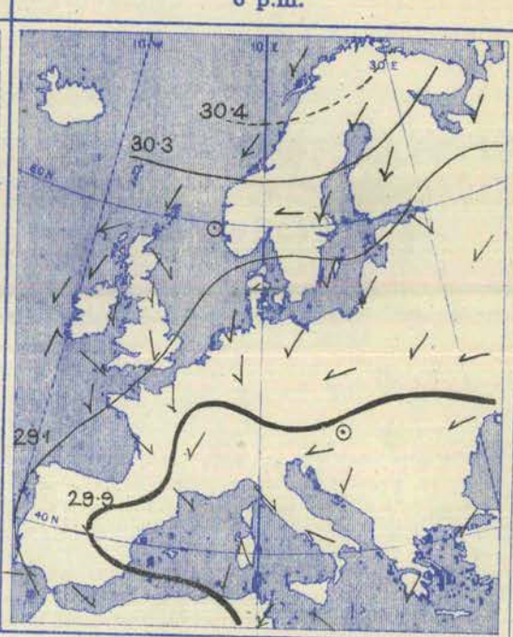


Weather in morning fine over the west and south of our Islands and the greater part of the Continent. Dull on our north and east coasts, with fog or drizzling rain in many places; dull also over Russia, eastern Germany, and the south of Sweden, with rain at St. Petersburg, Helsingfors, and the Scaw. Rain falling later at many of our own northern stations—heavy at Ardrossan. Thunderstorms occurring at Karlstad and Lyons; St. Elmo's fire seen also at the latter station.

Temperature risen in the west and south of our Islands, fallen in the north and east, changed irregularly elsewhere. Morning readings highest, 83° at Barcelona, 81° at Sfax, 77° at Trieste, and 75° at Lesina and Leghorn, above 65° at many of the Continental stations. Lowest, 46° at Wick, 47° at Sumburgh Head and Aberdeen, and 48° at Nairn, Leith, and Shields. Rising during day to 70° and upwards at several of our own southern stations, but remaining below 55° on most parts of our north and north-east coasts. Exceeding 80° in Germany and the east and south of France, and reaching 84° at Lyons and Perpignan.

Barometer and Wind. 8 a.m. and 6 p.m.



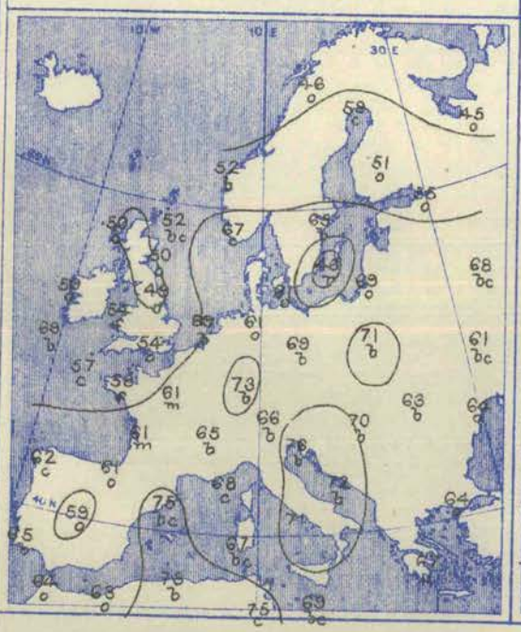


Wind Easterly or North-Easterly over Scotland, Scandinavia, and Denmark; light or moderate in force in most places, but strong at Christiansund. Light from the Northward or North-Westward over England and France, but South-Easterly at most of the Irish stations, and Southerly on the west coasts of the Spanish Peninsula. Variable in Germany and Austria; Northerly or North-Easterly over Italy; Southerly and South-Westerly in Algeria. No important change occurring over western Europe during day.

Barometer highest, 30·5 ins. and upwards in the north-west of Norway; 30·2 ins. and upwards in an anticyclone extending from northern Europe over Scotland and Ireland. Lowest, 29·9 ins. and less in two shallow depressions, one lying off the south of France, and the other over Asia Minor. Slight fall of barometer taking place over western Europe during day, but general distribution of pressure remaining unchanged.

Friday, 4th June.

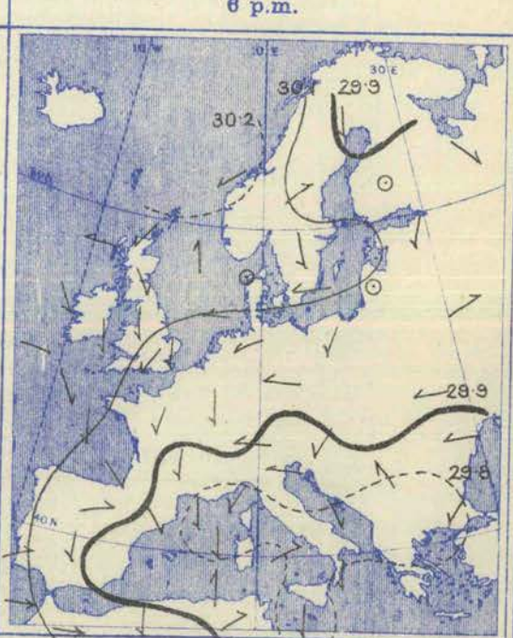
Temperature and Weather. 8 a.m.



Weather in morning dull over the greater part of our Islands, France, Spain, and the Netherlands, with mist or fog in many places, but fine on our own extreme south-west coasts. Fine also over nearly the whole of northern, eastern and central Europe, but dull at the Baltic stations, with rain at Wisby. A little rain falling later at Bödo, Aberdeen, and Jersey, and larger quantities in the south-west of France. Thunder and lightning occurring over the central and southern departments.

Temperature fallen at the English stations, but changed irregularly elsewhere. Morning readings highest, 77° at Leghorn, 76° at Trieste, and 75° at Barcelona and Sfax; above 65° at many of the Continental stations. Lowest, (1) 45° at Archangel, 46° at Bödo, and 48° at Wisby; (2) 49° at Wick, Shields, and Loughborough, and 50° at Stornoway and Nairn. Rising during day to between 65° and 70° at several of the English and Irish stations, and to 71° at York. Touching 83° in several parts of France, as well as at Skudesnaes.

Barometer and Wind. 8 a.m. and 6 p.m.

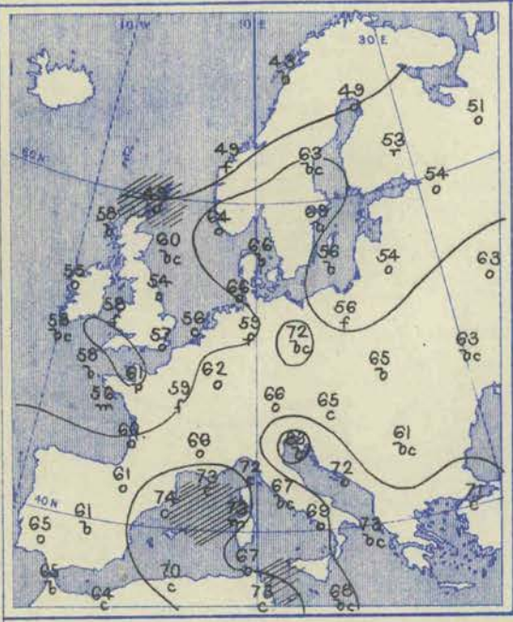


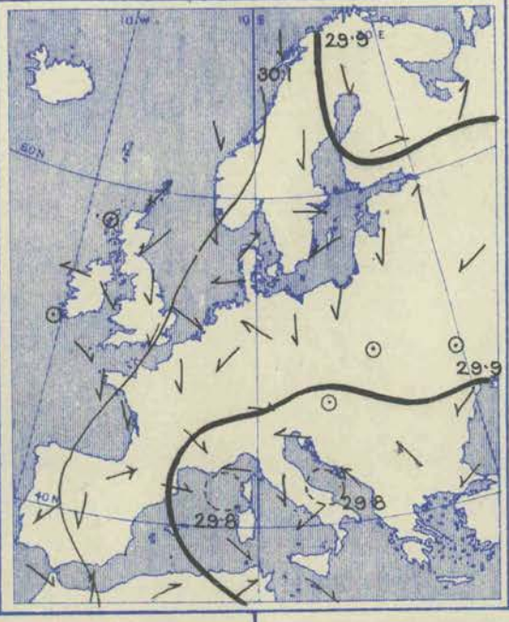
Wind light from the North-Eastward over Scotland and the northern parts of the Continent generally, but Southerly in the Gulf of Bothnia. Light from the Northward over Ireland, England, the Netherlands, Germany, and the greater part of France, but Westerly over the Spanish Peninsula and the extreme south of France. Variable in Austria and Italy. No important change occurring later.

Barometer highest, 30·3 ins. and upwards over the northern and central parts of Scandinavia; 30·1 ins. and upwards in an anticyclone extending from northern Europe over our Islands, and the western parts of the Spanish Peninsula. Lowest, 29·8 ins. and less in a depression near Malta; 29·9 ins. and less in a large area covering south-eastern Europe and the greater part of the Mediterranean. No important change occurring over western Europe during day.

Saturday, 5th June.

Temperature and Weather.	Barometer and Wind.	
8 a.m.	8 a.m.	6 p.m.





Weather in morning fine over the greater part of central, western, and north-western Europe, but dull, hazy or foggy, in many parts of France and England; dull over the Mediterranean, but rainy at La Calle. Slight showers later in a few parts of our Islands and Germany; and a heavy fall at Belfort, with thunder and lightning. Fog continuing prevalent over the north of England and east of Scotland.

Temperature has risen decidedly over Great Britain, not changed much elsewhere. Morning readings highest, 73° at Brindisi, Sanguinaire, and Toulon, 71° at Constantinople, 70° at Algiers and Nice; 65° to 60° over the greater part of Russia, and at many of our own southern and western stations, as well as on the east coasts of Scandinavia. Lowest, 43° at Bodö, 49° at Haparanda, Christiansund and Sumburgh Head, 52° at Malin Head, 53° at Spurn Head. Rising later to between 70° and 74° over many parts of Great Britain and central Ireland to 78° at Paris, 82° at Nice and Wiesbaden, and to 88° at Berlin.

Wind light and variable from the Northward over the United Kingdom, France, and Norway; light and very variable over eastern, central, and southern Europe; Southerly to Westerly on the north coast of Africa. Slight sea breeze at Hurst Castle later. No decided change elsewhere.

Barometer highest, 30·1 ins. and more over the west of Norway, nearly the whole of the British Islands, Brittany, Portugal and the south-western parts of Spain, and exceeding 30·0 ins. over the North Sea, Denmark, and the Baltic. Lowest, below 29·9 ins. over the north of Europe, and also over the south-eastern and southern countries; 29·8 ins. at Toulon. Changing but little and irregularly over western Europe later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 128.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	33·6	− 4·2	28	− 5	EASTBOURNE	34·7	−17·0	31	−16
OSWALDKIRK (Yorkshire)	45·5	+ 5·6	39	+ 5	VENTNOR	37·5	?	33	?
WORKSOP	28·1	−11·9	25	−10	SOUTHPORT	38·8	?	33	?
THURCASTON (Leicestershire)	31·6	−10·2	28	−10	COLWYN BAY	53·2	?	47	?
MARGATE	40·7	− 4·3	36	− 5	NEWQUAY	60·0	+10·0	54	+ 8
WESTBOURNE (Sussex)	41·4*	−10·0	37*	−11	TORQUAY	55·0*	+ 2·8	50*	+ 3
BRIGHTON	36·5	−13·4	33	−12	GUERNSEY	40·5*	−20·0	37*	−19

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 23.] *Third Series.* WEEK ENDING SATURDAY, JUNE 12TH, 1897. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years' observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 134.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	74	35	57·6	43·2	49·9	2 below	55	− 1	0	− 2	463	+ 7	615	− 4
	1. SCOTLAND, EAST	74	31	59·2	44·8	51·5	2 below	67	− 3	0	− 1	562	− 19	661	+ 12
	2. ENGLAND, N.E.	82	36	60·8	47·9	53·9	0 (average)	83	+ 9	0	− 1	598	+ 26	471	− 78
	3. ENGLAND, EAST	82	41	63·8	49·2	56·0	0 (average)	98	+10	0	− 1	797	+ 64	493	−124
	4. MIDLAND COUNTIES	83	39	65·8	49·6	57·1	2 above	106	+16	0	− 1	803	+ 31	504*	−115
	5. ENGLAND, SOUTH	82	43	65·8	52·2	58·5	2 above	116	+21	0	− 1	898	+ 81	297	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	72	39	60·1	48·3	53·8	0 (average)	83	+ 6	0	− 1	623	− 8	441	− 21
	7. ENGLAND, N.W.	80	41	63·0	49·2	55·6	0 (average)	95	+13	0	− 1	688	+ 32	367	− 92
	8. ENGLAND, S.W.	81	41	65·7	52·4	58·5	3 above	116	+27	0	0	892*	+ 90	223	−138
	9. IRELAND, NORTH	76	45	61·9	50·8	55·9	2 above	97	+18	0	− 1	694	− 18	403	+ 8
	10. IRELAND, SOUTH	73	49	64·1	54·5	58·9	3 above	118	+32	0	0	911	+ 54	242	− 57
	—CHANNEL ISLANDS	76	49	66·3	54·6	60·1	3 above	127	+33	0	0	1106	+179	68	− 80

Rainfall.

	DISTRICTS. (See p. 134.)	For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of ins.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	5	1 less	102	− 3	17·0	− 2·8
	1. SCOTLAND, EAST	4	6	1 more	92	+ 9	11·1	− 1·1
	2. ENGLAND, N.E.	2	1	3 less	88	+ 8	9·2	− 0.6
	3. ENGLAND, EAST	3	9	4 more	88	+11	10·8	+ 1·3
	4. MIDLAND COUNTIES	3	10	4 more	85	+10	12·4	+ 1·6
	5. ENGLAND, SOUTH	2	9	4 more	82	+ 9	13·6	+ 2·4
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	4	3 less	96	+ 7	16·9	− 2·5
	7. ENGLAND, N.W.	4	5	1 less	97	+16	13·5	+ 1·1
	8. ENGLAND, S.W.	2	7	2 more	101	+19	19·5	+ 4·6
	9. IRELAND, NORTH	5	8	2 more	107	+13	16·1	+ 1·7
	10. IRELAND, SOUTH	5	11	5 more	100	+12	18·7	+ 2·8
	—CHANNEL ISLANDS	2	3	2 less	108	+19	16·4	+ 3·6

Bright Sunshine.

	DISTRICTS. (See p. 134.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	34	− 3	27	− 4	583	+ 80	31	+ 5
	1. SCOTLAND, EAST	26	−16	22	−14	571	− 2	30	0
	2. ENGLAND, N.E.	28	−13	24	−12	607	+ 40	32	+ 2
	3. ENGLAND, EAST	35	−13	27	−16	647	− 6	34	0
	4. MIDLAND COUNTIES	31	−11	27	−10	624	+ 28	33	+ 2
	5. ENGLAND, SOUTH	42	− 8	37	− 8	680	− 3	35	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	21	−27	18	−23	620	+ 15	32	+ 1
	7. ENGLAND, N.W.	34	−10	29	− 9	651	+ 53	34	+ 3
	8. ENGLAND, S.W.	47	− 5	42	− 4	692	− 28	36	− 2
	9. IRELAND, NORTH	8	−34	7	−30	588	+ 13	31	+ 1
	10. IRELAND, SOUTH	12	−33	11	−29	626	− 33	33	− 1
	—CHANNEL ISLANDS	65	+13	59	+11	712	−112	37	− 6

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period varied greatly, but became fine and bright generally towards the end of the week. Rain was of frequent occurrence over England and Ireland during the earlier half of the week, and over Scotland during the latter. Thunderstorms occurred from time to time in different parts of the Kingdom; that experienced in London on Sunday being accompanied by extremely heavy rain in some of the southern and south-eastern suburbs.

Temperature varied greatly, but was on the whole above the mean, although it showed a deficit over Scotland N. and E., and just equalled the normal in England N.W., N.E., and E., and Scotland W. The highest of the maxima were registered on the 12th, when they ranged from 83° in the Midland counties, and from between 80° and 82° in the other English districts, to 73° in Ireland S. and 72° in Scotland W. On the 8th and 9th the maxima had been very low, being less than 50° at some stations, and below 56° in most parts of Great Britain. The lowest of the minima, which were recorded, as a rule, during the middle of the week, ranged from 31° in Scotland E. (at Nairn), and 35° in Scotland N., to 45° in Ireland N., and 49° in Ireland S. and the Channel Islands.

Rainfall was considerably more than the mean in most districts, but was less than the normal in Scotland N. and W., England N.E. and N.W., and the Channel Islands. The falls recorded over the southern parts of England on the 8th ranged between 0·60 in. and 1·10 ins.

Bright Sunshine exceeded the mean in the Channel Islands, but was deficient elsewhere—especially over Ireland and the west of Scotland. The percentage of the possible duration ranged from 59 in the Channel Islands, and from 42 in England S.W., to 18 in Scotland W., 11 in Ireland S., and only 7 in Ireland N.

Barometer and Wind.—At the commencement of the time an anticyclone lay over all the western and northern parts of the Kingdom, the winds being moderate from the Northward. By the 8th this system was travelling away eastwards, and by the 9th a complex depression had appeared over our south-western and southern districts, with cold Easterly and North-Easterly winds. During the night of the 9th, however, it moved away eastwards and dispersed, an anticyclone at the same time spreading over England from the southward. This high pressure area continued to develop, and finally embraced nearly the whole Kingdom, causing light or moderate winds from the Southward or South-Eastward.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 133 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0 SCOTLAND, N.	Sumburgh Head	58	36	52·3	41·9	46·7	− 2·0	33	0	4	0·55	+0·08	*	*	*	*
	Stornoway	60	40	55·7	45·1	50·0	− 0·9	56	0	3	0·17	−0·48	45·9	+ 3·6	37	+ 2
	Wick	71	35	57·1	44·4	50·3	− 0·5	58	0	4	0·27	−0·12	*	*	*	*
	Lairg Ⓢ	74	37	61·0	43·5	51·6	+ 0·1	67	0	3	0·22	−0·30	*	*	*	*
	Glencarron Ⓢ	64	35	57·8	40·1	48·3	− 4·0	51	5	3	0·60	−0·60	*	*	*	*
	Fort Augustus Ⓢ	67	38	60·6	45·4	52·5	− 0·7	74	0	4	0·64	+0·18	26·4	− 3·1	22	− 2
	Fort William Ⓢ	60	40	58·4	42·1	49·7	− 3·8	54	0	4	1·11	+0·23	28·5	−11·8	23	−10
1. SCOTLAND, E.	Nairn	74	31	62·0	43·3	52·0	− 1·5	70	0	4	0·50	+0·08	*	*	*	*
	Aberdeen	70	37	57·6	44·7	50·7	− 2·1	61	0	4	0·29	−0·17	46·7	+ 0·9	38	0
	Braemar Ⓢ	67	38	58·1	43·7	50·4	− 0·7	59	0	5	0·75	+0·25	27·2†	−15·6†	22†	−15†
	Ochtertyre Ⓢ	70	42	60·6	47·3	53·5	− 1·0	81	0	4	1·30	+0·66	*	*	*	*
	Leith	73	38	59·1	45·3	51·7	− 2·8	68	0	3	0·25	−0·21	*	*	*	*
	Marchmont Ⓢ	70	33	57·7	44·3	50·5	− 2·2	60	0	3	0·33	−0·27	24·0	−18·9	20	−16
2. ENGLAND, N.E.	Alnwick Castle	68	36	57·4	44·7	50·6	− 1·9	60	0	2	0·10	−0·43	*	*	*	*
	Durham	82	39	61·6	47·0	53·8	− 0·5	83	0	1	0·08	−0·41	32·9	− 7·3	28	− 6
	Shields	80	45	60·6	48·3	54·0	+ 1·0	84	0	2	0·09	−0·32	*	*	*	*
	Scarborough Ⓜ	? 81	45	60·1	49·0	54·2	0·0	85	0	0	—	−0·48	*	*	*	*
	York	82	43	64·3	48·7	56·0	+ 0·7	98	0	3	0·33	−0·19	27·0	−16·0	23	−14
	Spurn Head	77	45	60·9	49·6	54·9	+ 0·6	90	0	3	0·16	−0·25	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	81	46	64·5	49·0	56·2	+ 0·5	99	0	4	0·74	+0·22	31·9	−16·1	28	−14
	Yarmouth	66	47	59·0	50·0	54·2	− 0·8	85	0	2	0·64	+0·18	*	*	*	*
	Geldeston	79	45	63·6	49·4	56·0	+ 0·6	98	0	3	0·83	+0·41	37·4	−13·7	33	−13
	Cambridge	82	41	66·4	48·7	56·9	0·0	104	0	3	1·32	+0·82	32·5	−15·0	29	−12
	Rothamsted	78	42	65·6	49·0	56·7	+ 1·1	103	0	3	0·99	+0·50	32·6	−13·0	29	−12
4. MIDLAND COUNTIES	Harrogate Ⓜ	79	41	61·6	47·3	54·0	− 0·4	84	0	3	0·52	?	24·7	?	21	?
	Bawtry (Hesley Hall)	83	39	67·3	49·6	57·8	+ 1·7	111	0	4	0·47	−0·06	*	*	*	*
	Loughborough	82	40	66·0	49·3	57·1	− 0·1	106	0	4	1·04	+0·52	*	*	*	*
	Stamford (Duddington)	81	41	66·4	49·0	57·1	+ 0·9	106	0	4	1·13	+0·63	*	*	*	*
	Cheadle Ⓜ	77	41	62·3	48·0	54·7	+ 0·5	89	0	3	0·81	+0·14	*	*	*	*
	Shirley (near Solihull)	79	39	64·1	48·8	55·9	− 0·2	97	0	3	1·51	?	*	*	*	*
	Churchstoke Ⓜ	80	46	65·6	50·3	57·4	+ 3·0	108	0	3	0·54	−0·01	26·3	−17·9	23	−16
	Hereford Ⓜ	82	47	70·7	51·3	60·3	+ 3·7	128	0	3	1·45	+0·95	*	*	*	*
	Cirencester	78	46	66·3	51·1	58·2	+ 3·2	113	0	2	1·11	+0·56	35·3	−10·7	31	−10
	Oxford	79	43	67·4	51·3	58·8	+ 2·4	118	0	4	1·16	+0·64	40·3	− 5·3	35	− 6
5. ENGLAND, S.	London	82	43	67·1	50·9	58·4	+ 0·3	115	0	3	0·65	+0·17	33·0†	− 9·2†	29†	− 9†
	North Foreland	71	50	61·7	51·9	56·5	+ 1·2	102	0	2	0·88	?	*	*	*	*
	Dungeness	73	46	62·1	51·7	56·5	+ 0·3	102	0	3	0·32	−0·08	*	*	*	*
	Hastings (St. Leonards)	75	47	65·9	51·2	58·0	+ 1·9	112	0	2	0·82	+0·40	42·0	−13·0	37	−12
	Southampton	78	50	71·4	53·5	61·8	+ 4·3	139	0	3	0·94	+0·49	44·9	− 5·2	40	− 6
	Hurst Castle	72	52	66·1	55·1	60·2	+ 3·3	127	0	2	1·43	+0·98	*	*	*	*
	Shaftesbury Ⓜ	73	47	66·6	51·0	58·3	+ 3·6	114	0	2	0·99	+0·51	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	65	42	61·0	47·6	53·8	+ 0·1	83	0	4	0·31	−0·66	*	*	*	*
	Glasgow	65	39	59·2	47·6	53·0	− 1·0	77	0	3	0·25	−0·42	15·4	−23·0	13	−19
	Ardrossan	61	41	58·1	47·6	52·5	− 2·0	74	0	3	0·47	−0·11	*	*	*	*
	Glenlee Ⓢ	72	42	60·7	47·6	53·7	− 1·0	82	0	3	0·26	−0·54	*	*	*	*
	Gilcrux (Cumberland)	72	44	61·7	48·7	54·8	+ 1·1	90	0	6	0·23	?	27·5	?	23	?
	Douglas Isle of Man	66	47	59·6	50·6	54·8	+ 0·9	90	0	4	0·80	+0·27	21·1	−30·6	18	−27
7. ENGLAND, N.W.	Stonyhurst	76	43	62·5	48·7	55·1	+ 0·1	92	0	4	0·48	−0·31	34·1	−11·0	29	−10
	Blackpool Ⓜ	79	41	63·6	46·4	54·4	− 0·1	87	0	3	0·63	+0·13	35·7	− 9·5	31	− 8
	Manchester (Prestwich)	80	43	63·3	48·5	55·4	+ 0·2	94	0	3	0·54	−0·16	26·0	?	22	?
	Liverpool Obsy. (Bidston)	79	45	63·9	50·6	56·8	+ 1·2	104	0	3	0·25	−0·27	*	*	*	*
	Llandudno Ⓜ	76	48	64·5	50·5	57·0	+ 1·1	105	0	5	0·48	0·00	*	*	*	*
	Holyhead	68	48	60·4	50·3	55·0	− 0·3	91	0	4	0·35	−0·13	*	*	*	*
8. ENGLAND, S.W.	Llandovery	81	41	71·0	48·4	58·6	+ 3·3	118	0	3	0·78	+0·08	*	*	*	*
	Pembroke	67	51	59·0	52·0	55·3	+ 0·6	93	0	4	0·75	+0·27	21·3	−31·5	19	−27
	Clifton	73	49	66·0	53·7	59·4	+ 3·8	122	0	2	0·90	+0·35	*	*	*	*
	Arlington (N. Devon)	76	48	65·7	50·4	57·5	+ 3·5	109	0	3	0·86	+0·12	*	*	*	*
	Cullompton Ⓜ	75	48	68·8	52·0	59·8	+ 3·6	125	0	2	1·09	+0·59	42·5	− 4·5	38	− 4
	Falmouth	69	53	65·0	54·8	59·5	+ 3·6	123	0	1	0·40	−0·15	57·8	+ 4·3	52	+ 4
	Plymouth	75	53	66·1	54·1	59·7	+ 2·0	124	0	1	0·36	−0·11	53·9	+ 4·9	48	+ 4
	Prawle Point	71	51	63·7	53·4	58·2	+ 3·3	113	0	2	0·75	+0·33	*	*	*	*
9. IRELAND, N.	Malin Head	66	45	58·3	49·4	53·5	− 0·2	81	0	5	0·49	?	*	*	*	*
	Londonderry	70	46	62·8	50·7	56·3	+ 0·6	100	0	6	0·85	+0·25	*	*	*	*
	Edenfel (Omagh)	71	46	61·9	50·9	56·0	+ 2·8	98	0	5	1·23	+0·63	*	*	*	*
	Belmullet	66	49	61·9	52·3	56·8	+ 1·8	104	0	5	0·82	+0·12	*	*	*	*
	Markree Castle	70	49	63·4	52·4	57·5	+ 3·5	109	0	6	0·62	−0·03	7·1	−34·4	6	−30
	Armagh	72	46	63·4	50·5	56·5	+ 2·2	102	0	5	0·77	+0·27	8·2	−33·7	7	−29
	Donaghadee	67	45	58·3	48·7	53·2	− 1·4	78	0	5	0·87	+0·35	*	*	*	*
	Edgeworthstown	76	47	64·8	51·2	57·5	+ 3·1	109	0	5	0·75	+0·07	*	*	*	*
10. IRELAND, S.	Dublin	73	49	64·4	53·9	58·8	+ 2·4	118	0	5	1·02	+0·54	15·9	−31·2	14	−27
	Parsonstown	72	51	66·9	54·3	60·2	+ 5·2	127	0	5	0·98	+0·40	12·7	−28·1	11	−24
	Kilkenny	70	50	64·4	54·7	59·2	+ 4·0	120	0	4	1·21	+0·70	*	*	*	*
	Roche's Point	65	54	61·4	54·6	57·8	+ 1·3	111	0	5	1·37	+0·63	*	*	*	*
	Valencia	65	51	61·9	54·3	57·8	+ 1·9	111	0	4	0·44	−0·26	6·7	−41·3	6	−37
	Killarney	69	53	65·3	54·9	59·7	+ 4·5	124	0	5	0·96	?	*	*	*	*
	Foynes	?	51	?	55·0	?	?	?	?	4	1·47	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	54	64·3	54·9	59·3	− 3·0	121	0	2	0·27	−0·17	52·4	?	47	?
	Jersey	76	49	68·3	54·3	60·8	+ 3·3	132	0	1	0·31	−0·15	72·8	+12·7	66	+11

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

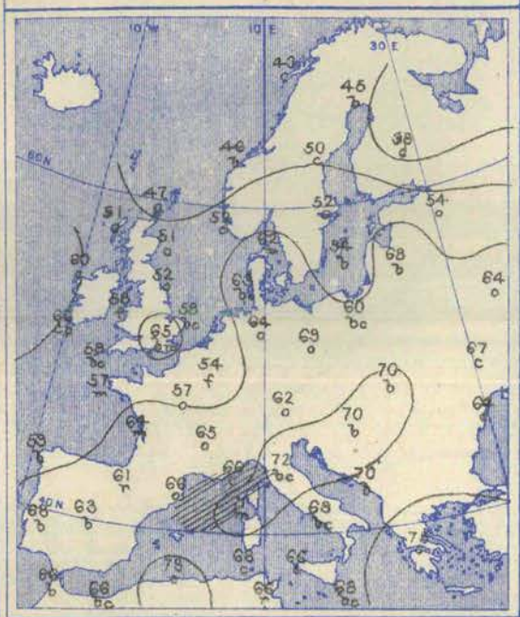
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 6th June.

Temperature and Weather.

8 a.m.

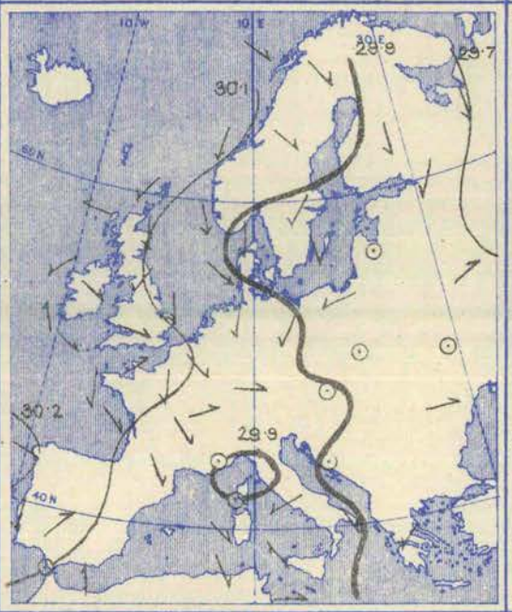


Weather in morning varying greatly in different localities; fine and bright over the Spanish Peninsula, central Europe, and many parts of England; dull elsewhere, and not settled; foggy over the English Channel and Belgium, rainy at Valencia (Ireland) and at Hangö. Rain falling later over Scandinavia and many of our own northern districts, and in large quantities over the extreme southern and south-eastern suburbs of London and in some parts of France during severe thunderstorms, as well as over some parts of Lincolnshire; much rain at Gap, and thunder and lightning over central Europe.

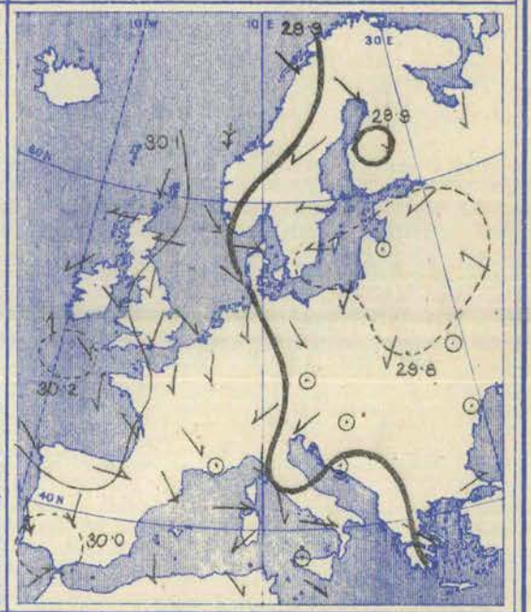
Temperature in morning highest, 75° to 70° at many of the Mediterranean stations, 70° at Oporto, 69° at Prawle Point, 67° at Copenhagen, 65° in London. Lowest, 36° at Archangel, 45° at Haparanda, 47° at Sumburgh Head, 51° at Stornoway and Aberdeen, 52° at Shields. Rising later to between 70° and 77° in many parts of England, to 75° at Paris, 81° at Berlin and Nice, and more than 80° at several other southern stations; said to have touched 95° at Gap.

Barometer and Wind.

8 a.m.



6 p.m.



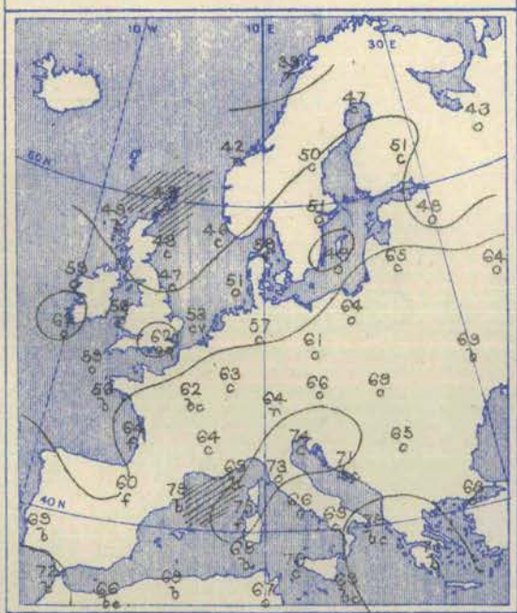
Wind light and very variable over Europe generally, but mainly Northerly over the western countries; North-Westerly in the far north. Becoming North-Easterly in the south of Sweden later, North-Westerly over Germany, South-Westerly to Southerly over the south-eastern counties of England, and Southerly in the south of Ireland.

Barometer highest, 30·2 ins. and more in the north-west of Spain, and exceeding 30·1 ins. over the Iberian Peninsula, the greater part of our Islands, and the north-west of Norway. Lowest, 29·7 ins. and less over the north-eastern parts of Russia. Several very shallow and local disturbances over the south of Sweden, central Europe, and the north-east of England; another appearing over our south-eastern counties later.

Monday, 7th June.

Temperature and Weather.

8 a.m.

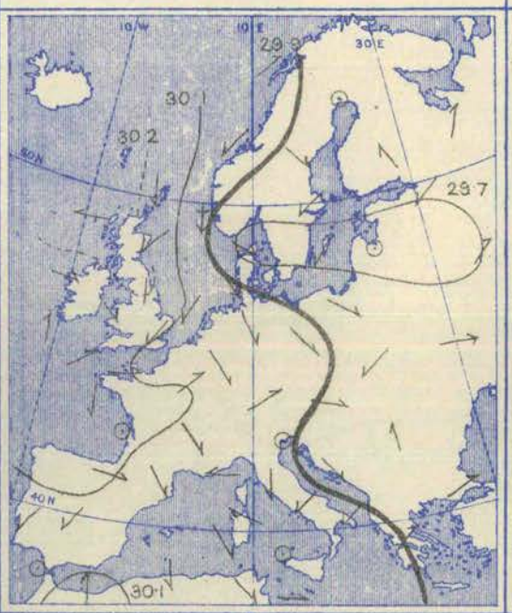


Weather in morning very variable; still fine and bright over Spain and the southern shores of the Mediterranean, and in some parts of Hungary and the extreme north of Scotland. Very cloudy as a whole elsewhere, and in many localities gloomy and foggy or showery. Rain falling later over the northern countries and the northern and western parts of our Islands, and local showers in many parts of central and southern Europe.

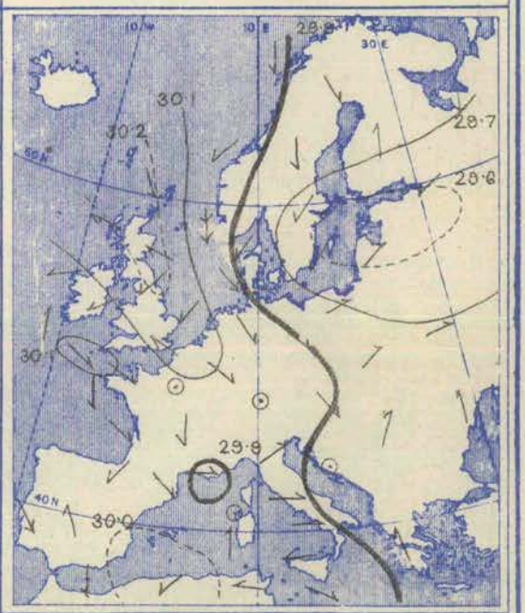
Temperature fallen over Great Britain. Highest morning readings, 79° at Brindisi and Barcelona, 73° to 74° at some other Mediterranean and Adriatic stations; above 65° over many parts of central Europe, 64° at Moscow, 62° in London and at Valencia (Ireland). Lowest, 39° at Bodö, 43° at Sumburgh Head and at Archangel, 46° at Nairn, 47° at Shields. Not touching 70° later at our own stations, excepting Hurst Castle, but reaching 72° at Berlin, 76° at Paris, 82° at Belfort, 84° at Turin, Cagliari, Marseilles, Sanguinaire, and La Calle. Succeeding night cold over Great Britain.

Barometer and Wind.

8 a.m.



6 p.m.

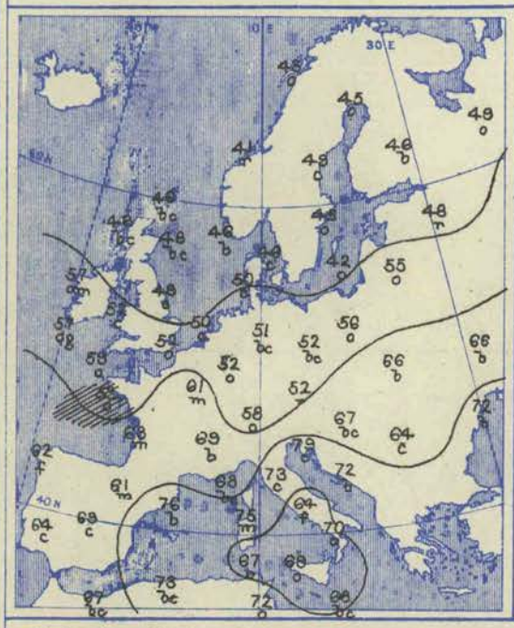


Wind (1) Northerly to North-Easterly over northern Europe, North-Westerly over the Baltic and north Germany, very variable over the Mediterranean and southern Europe. (2) Extremely light and variable over our Islands, but chiefly Northerly over England; (3) Westerly to South-Westerly over the north-east of France. Becoming fresher from between North-East and North-West over Great Britain and the North Sea later, as well as over Scandinavia.

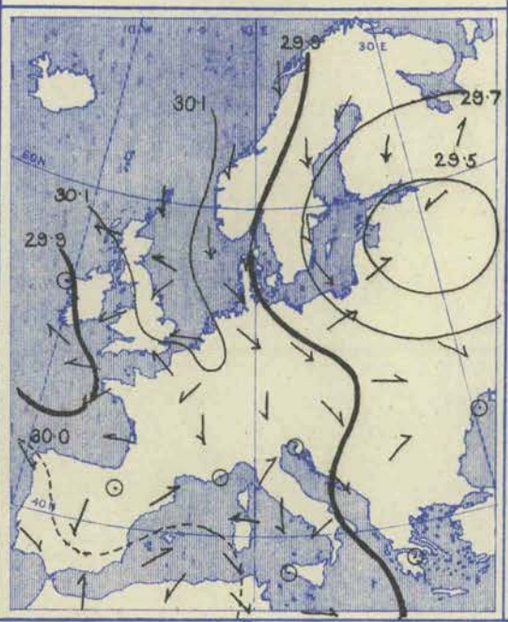
Barometer highest 30·2 ins. and more over Scotland, and exceeding 30·1 ins. over almost the whole of the British Islands, Brittany, the Bay of Biscay, and the Spanish Peninsula. Lowest, below 29·7 ins. over the south of Sweden, the northern half of the Baltic, and much of the western and central parts of Russia; below 29·9 ins. over the northern parts of the Mediterranean. Falling over the Mediterranean and south-eastern Europe later, rising in the north of our Islands.

Tuesday, 8th June.

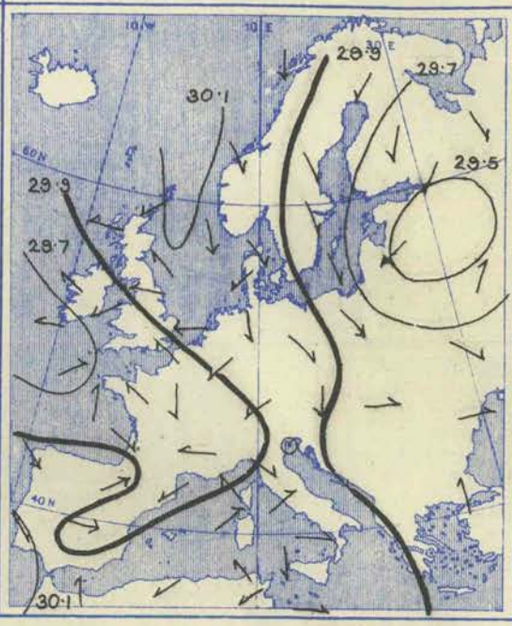
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Scotland, the Shetlands, and many parts of Scandinavia and Holland; fair over the Spanish Peninsula, and southern and south-eastern Europe; very dull over Ireland and England, with rain in several places, as well as over many parts of Russia and Finland. Rain falling later over Ireland, England, France, and Belgium—heavily in many places; thunderstorms occurring at Lyons, Rochefort, Jersey, and Brussels.

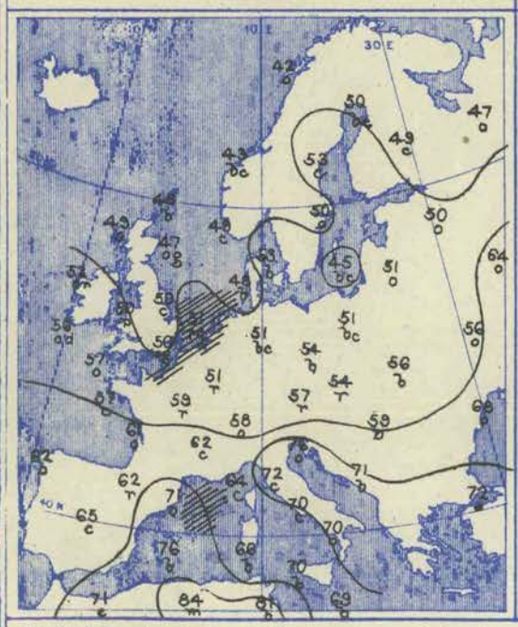
Temperature fallen decidedly over England, as well as over the Baltic and central Europe. Morning readings highest, 76° at Barcelona, 73° at Algiers, 72° at Toulon and Lesina, and exceeding 60° over southern and south-eastern Europe generally, 61° at Paris, 59° at Scilly. Lowest, 41° at Christiansund, and below 50° over the whole of northern Europe, including Scotland and the northern parts of England and Ireland. Rising later to between only 50° and 59° over Great Britain, to 60° or more over Ireland and the Scilly Islands, to 63° at Berlin, to 73° at Paris, 79° at Naples, 84° at Lyons, and 86° at Biarritz and Algiers.

Wind (1) North-Easterly to Northerly, moderate to strong, over Finland, Sweden, and Norway. North-Westerly to Westerly over Germany, and blowing strongly at Neufahrwasser; (2) South-Easterly to Easterly over Ireland, England, and the Channel; (3) light and variable over the North Sea, France, and south-eastern and southern Europe. Freshening from South-East and East over Ireland and England later, but shifting to South-West at Scilly and to South at Brest.

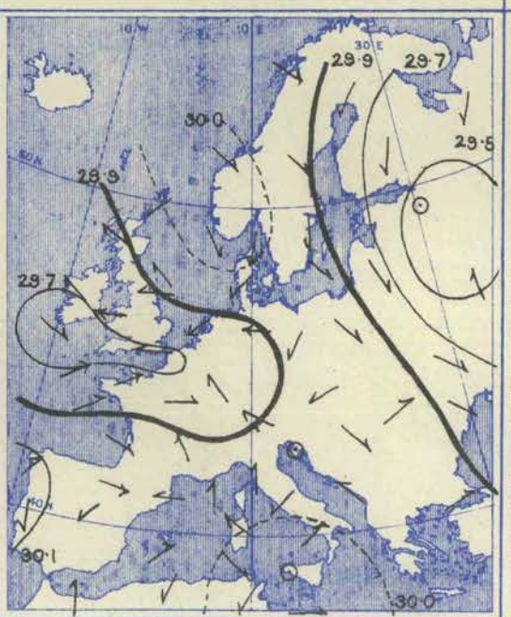
Barometer in morning highest (1) 30·1 ins. and more over the eastern and northern parts of Great Britain, with the Shetland Islands; (2) 30·0 ins. and more over the north of Africa and the south-western parts of the Mediterranean and the Spanish Peninsula. Lowest (1), below 29·5 ins. in a depression over Russia; (2) below 29·9 ins. off our south-west coasts and over the west of Ireland. Western disturbance spreading south-eastwards later, and distribution of pressure over our Islands and their neighbourhood becoming very complex.

Wednesday, 9th June.

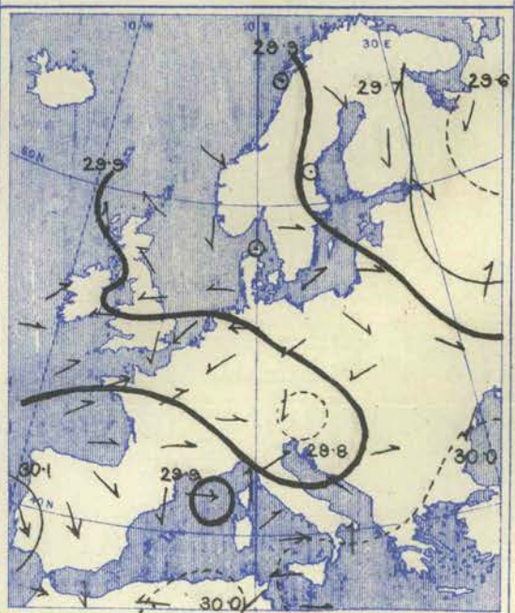
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western, central, and southern Europe generally, with rain in many parts of Ireland, England, Belgium, western Germany, and the north-east of France, as well as at Biarritz. Dull also in Russia, but fine in Scandinavia and Denmark. Heavy rain falling during day in western and southern Germany and Austria, and considerable amounts in many parts of England and France. Thunder occurring at Paris and in the south of France.

Temperature risen over northern Europe, fallen in France and western Germany, changed irregularly elsewhere. Morning readings highest, 84° at Algiers, 81° at Sfax, and 76° at Trieste and Palma, above 65° over southern Europe generally. Lowest, 42° at Bodö, 43° at Christiansund, and 47° at Aberdeen and Loughborough; below 50° at many of our own northern and central stations. Remaining below 55° all day in many parts of Great Britain and also in the north of Ireland. Exceeding 70° in the south of France, and also at Lisbon, and reaching 76° at Lyons and Perpignan, 79° at Cape Bearn and Coisette, 84° at Brindisi, 86° at Nemours, and 95° at Aumale.

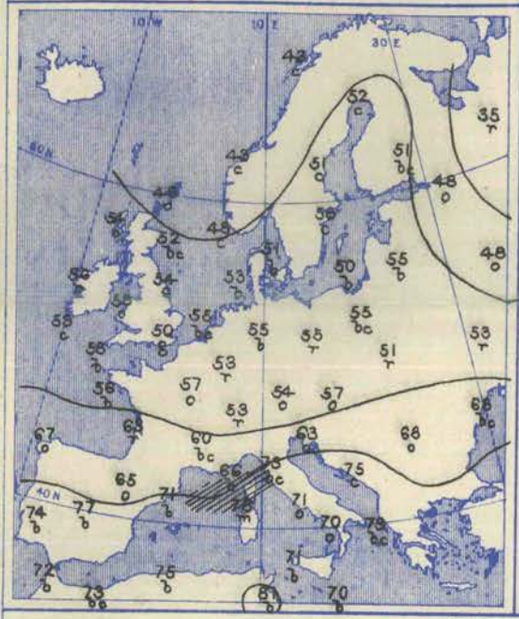
Wind moderate to fresh from the Westward over the Channel and France, Easterly or South-Easterly over all but the extreme southern parts of our Islands, and strong in force on some parts of our east and north-west coasts. Northerly or North-Westerly over Scandinavia, Russia, and eastern Germany; North-Easterly over Denmark and the northern and eastern parts of Germany. Variable in Austria and Italy; South-Easterly or Southerly in the south of France; Northerly or North-Easterly over the Spanish Peninsula. No important change occurring in our Islands later.

Barometer highest, 30·1 ins. and upwards over the western parts of the Spanish Peninsula; 30·0 ins. and upwards over Tunis and southern Italy, and also over the southern parts of Norway and the adjacent portions of the North Sea. Lowest, 29·5 ins. and less in a depression over central Russia; 29·7 ins. and less in an elongated system over the south of our Islands. Latter disturbance beginning to fill up later, and barometer rising over western Europe generally.

Thursday, 10th June.

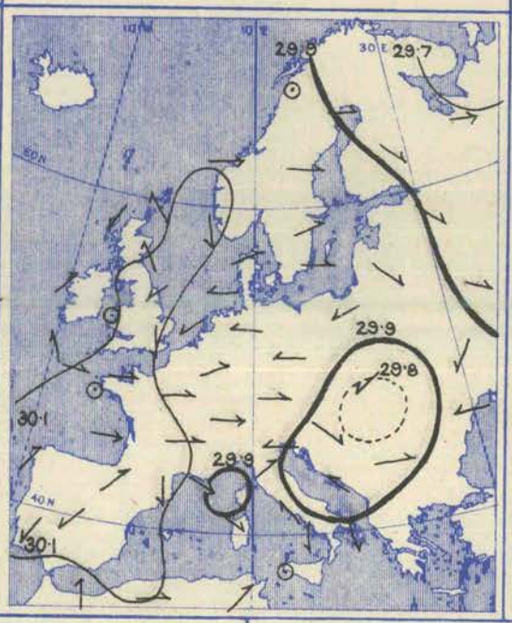
Temperature and Weather.

8 a.m.

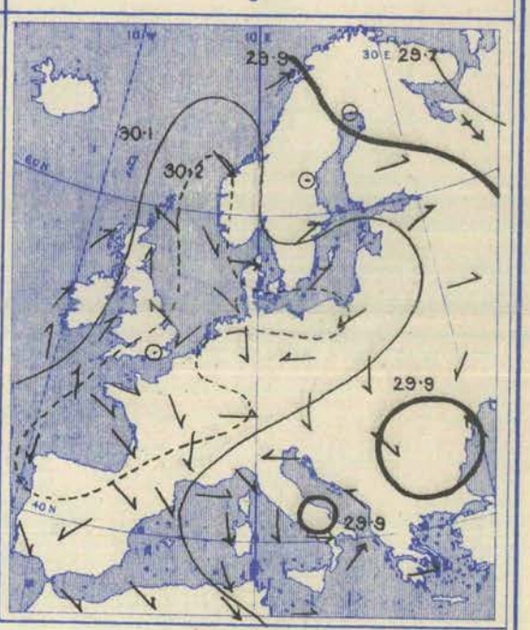


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the Baltic and (locally) in several parts of north-western Europe and over Spain; very fine over the southern parts of the Mediterranean. Overcast and very rainy over central Europe; dull over Italy and many parts of England and Ireland; foggy at Roche's Point. Rain falling later over Ireland, Scotland, and several parts of Austria, Germany, and northern Europe, but weather fair over England. A good deal of haze over the British Islands.

Temperature in morning highest, 79° at Brindisi, and exceeding 70° at many of the Adriatic, Mediterranean, and Spanish stations. Exceeding 60° in the south of Russia; 59° at Valencia (Ireland), 58° at Scilly, and also at Stockholm. Lowest, 35° at Archangel, 43° at Bodö and Christiansund, 48° at Sumburgh Head, and also at Moscow. Rising later to between 60° and 65° over the United Kingdom, to 70° at Oxford and Lorient, 83° at Perpignan, 90° at Brindisi, and 95° at Sfax. Tending to rise over north-western Europe generally.

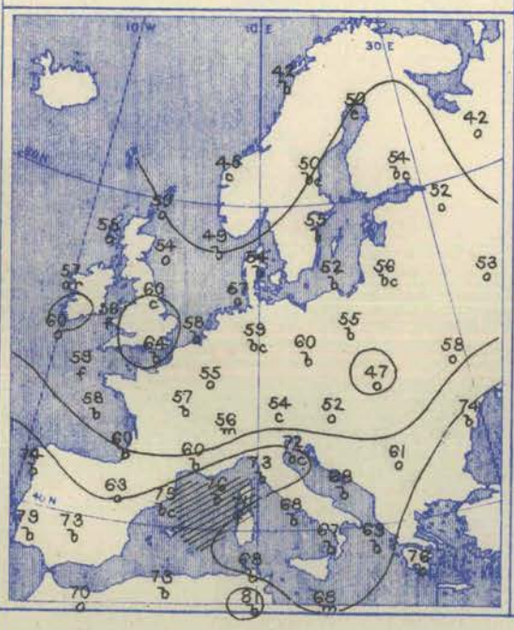
Wind light to moderate generally; Southerly over Ireland, Westerly in many parts of Scandinavia; very variable over the Baltic and western Europe. Complex cyclonic circulations found over the northern parts of the Mediterranean, Austria-Hungary, and also over the Netherlands and east of England. The last-named system dying out later, and anticyclonic conditions becoming prevalent over France, England, and the Netherlands.

Barometer highest 30·2 ins. to 30·1 ins. over Spain and the western half of France, England, and the west of Norway. Lowest, 29·8 ins. and less over the north of Russia, as well as in a depression over Austria-Hungary, below 29·9 ins. in another depression over the Riviera and Corsica; and about 30·0 ins. over Holland, as well as off our extreme north-west coasts. The Dutch depression filling up later, and barometer rising over western Europe generally.

Friday, 11th June.

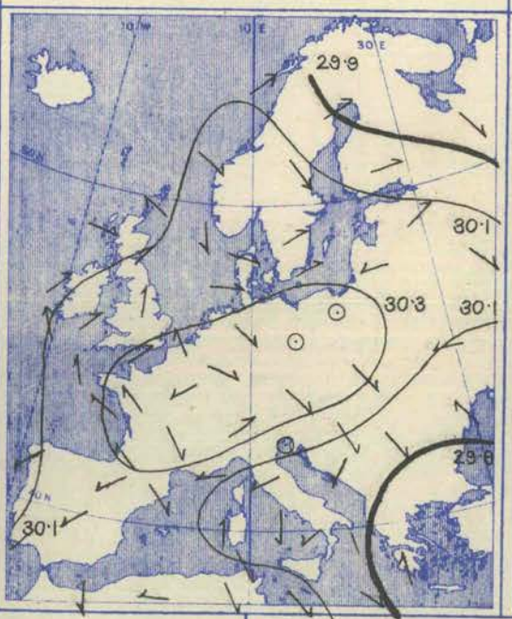
Temperature and Weather.

8 a.m.

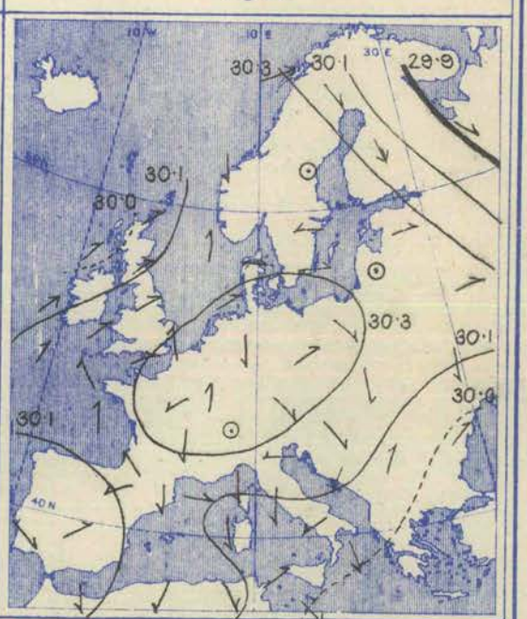


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine over the greater part of England and the Continent, dull in Ireland and Scotland, with rain on our extreme north-west coasts; dull also at many of the Russian and Austrian stations, with rain at Buda-Pesth. Rain falling later over the whole of Ireland, the west and north of Scotland, the west of Norway, and north of Russia, rather heavily in the Shetlands; no important change occurring elsewhere.

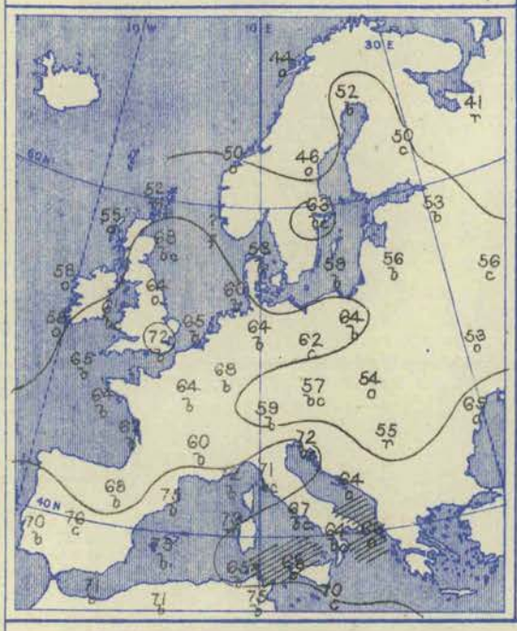
Temperature risen over western Europe generally, and also in Russia, fallen in Austria and Italy, changed irregularly elsewhere. Morning readings highest, 81° at Tunis and Sfax, 79° at Lisbon, and 76° at Toulon and Athens; above 70° in many parts of southern Europe, and above 60° over England. Lowest, 42° at Archangel and Bodö, 45° at Christiansund, 49° at Skudesnaes, and 50° at Hernösand and Sumburgh Head. Rising during day to 70° and upwards in many parts of our Islands and France, and reaching 76° in London, and at Loughborough and Cambridge. Exceeding 80° in the south of France and several parts of Italy, and touching 93° at Lisbon.

Wind light from the Eastward in France, and from the North-Eastward in Spain, but Southerly over our Islands, and moderate to fresh in force in the west. Westerly or North-Westerly at most of the Scandinavian, Danish, and north Russian stations, strong in force in isolated places. Calm or light from the North-Westward in Germany and Austria; Northerly in Italy. No important change occurring over western Europe during day.

Barometer highest, 30·3 ins. and upwards over Germany, France, the Netherlands, and the southern parts of England; 30·1 ins. and upwards in an anticyclone embracing a considerable portion of Europe. Lowest, 29·9 ins. and less in two areas, one lying over the extreme northern parts of Russia and Scandinavia, and the other over southern Europe. Shallow depression advancing later to our own extreme north-west coasts; barometer falling slightly in most parts of our Islands and France.

Saturday, 12th June.

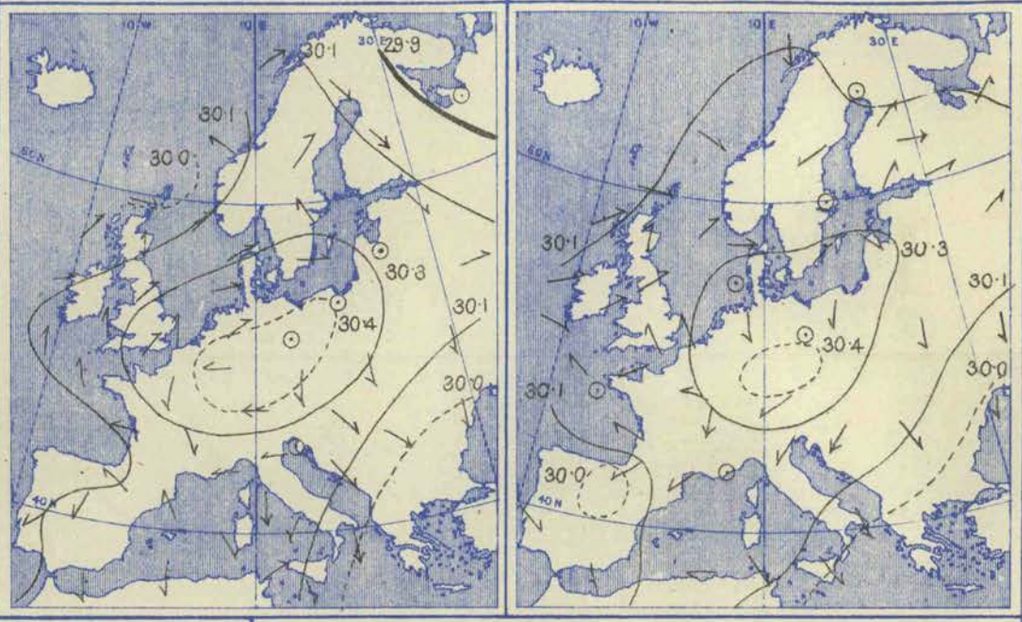
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over the greater part of the Continent and England; dull over Ireland, Scotland, and the west of Norway, dull and rainy over Austria. Rain falling later over the western and northern parts of the United Kingdom and at Christiansund—heavily in some places; thunderstorms occurring at Roche's Point, lightning at Biarritz, but continuously fine and bright weather recorded over England, France, and Germany as a whole.

Temperature rising. Morning readings highest, 79° to 70° over Spain and in many parts of Algeria; 72° in London, 68° at York and Aberdeen. Lowest, 41° at Archangel, 44° at Bodö, 46° at Hernosand; below 60° over the greater part of central Europe. Rising later to between 80° and 82° over many parts of England, to 81° at Berlin, 83° at Lorient, 90° at Rochefort and Biarritz, and to 91° at Lisbon. Falling again briskly as night came on.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind light and anticyclonic over central Europe and the greater part of England; Southerly light to moderate over Ireland and England. Southerly to Westerly over Scandinavia, North-Westerly over Finland and the north of Russia, Northerly to North-Easterly over south-eastern and southern Europe, Easterly in the west of France and over the English Channel. Very little change later.

Barometer highest, 30·4 ins. and more over the northern and western parts of Germany, and exceeding 30·2 ins. over all the central countries and England. Lowest, below 30·0 ins. over south-eastern Europe on the one hand, and over the Shetland Islands on the other—gradients slight to moderate. Rising later over Scotland, Ireland, and Norway; falling a little over England, France, and Germany.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the earlier part of this week pressure was highest over the northern parts of our Islands and the west of Norway, lowest over the Baltic and the northern half of Russia on the one hand, and over the south-western and southern parts of our Islands on the other. Thunderstorms and rains were experienced over the greater part of the Kingdom, and cold unseasonable weather in most places. After the middle of the week, however, a great change occurred. Pressure recovered over the south-western and southern parts of Europe, and an anticyclone was developed over France, Germany, and England, which brought about a change to exceedingly fine weather, with light anticyclonic winds, and temperature rising to between 80° and 82° over England, and to 90° or more at several of the Continental stations. Although the days were so warm, the nights were cool over England, and the air dry, so that the heat was not oppressive.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 134.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	7·3	-30·6	6	-26	EASTBOURNE	43·9	- 7·7	39	- 7
OSWALDKIRK (Yorkshire)	24·5	-15·1	21	-13	VENTNOR	46·6	?	41	?
WORKSOP	29·3	-10·2	25	- 9	SOUTHPORT	38·7	?	33	?
THURCASTON (Leicestershire)	28·5	-13·0	25	-12	COLWYN BAY	35·7	?	31	?
MARGATE	36·7	- 8·1	32	- 8	NEWQUAY				
WESTBOURNE (Sussex)	42·1*	- 8·9	37*	-10	TORQUAY	57·8*	+ 4·0	52*	+ 4
BRIGHTON	44·2	- 6·6	39	- 6	GUERNSEY	71·0*	+10·9	64*	+ 9

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV. No. 24.] *Third Series.* WEEK ENDING SATURDAY, JUNE 19TH, 1897. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 140.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
								For the Week				From January 3rd, 1897.			
		Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima	Averages of Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	67	37	56·2	44·2	49·8	3 below	55	− 8	0	− 2	518	− 1	615	− 6
	1. SCOTLAND, EAST	70	38	57·3	44·8	50·7	4 below	61	−16	0	0	623	− 35	661	+ 12
	2. ENGLAND, N.E.	81	40	61·7	49·0	54·9	0 (average)	90	+ 8	0	0	688	+ 34	471	− 78
	3. ENGLAND, EAST	82	43	66·6	49·4	57·4	0 (average)	108	+13	0	0	905	+ 77	493	−124
	4. MIDLAND COUNTIES	84	41	64·7	48·8	56·2	1 below	99	+ 3	0	0	902	+ 34	504	−115
	5. ENGLAND, SOUTH	84	42	66·8	51·5	58·6	1 above	116	+14	0	0	1014	+ 95	297	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	73	41	57·7	46·6	51·8	3 below	69	−14	0	0	692	− 22	441	− 21
	7. ENGLAND, N.W.	80	43	61·2	49·3	54·8	2 below	90	0	0	0	778	+ 32	367	− 92
	8. ENGLAND, S.W.	83	44	63·1	51·1	56·7	0 (average)	103	+ 7	0	0	995	+ 97	223	−138
	9. IRELAND, NORTH	67	39	56·7	46·0	51·0	5 below	63	−22	0	0	757	− 40	403	+ 8
	10. IRELAND, SOUTH	67	40	59·6	48·4	53·6	3 below	81	−11	0	0	992	+ 43	242	− 57
	—CHANNEL ISLANDS	81	50	63·3	53·7	58·2	0 (average)	113	+ 7	0	0	1219	+186	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 140.)	Rainfall. For the Week.			Rainfall. From January 3rd, 1897.				Bright Sunshine. For the Week.				Bright Sunshine. From January 3rd, 1897.			
		Number of Rainy Days	Total Fall.	More or less than the mean for the Week	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	9	2 more	107	− 2	17·9	− 2·5	34	− 4	28	− 3	617	+ 76	30	+ 3
	1. SCOTLAND, EAST	6	26	21 more	98	+12	13·7	+ 1·0	21	− 21	17	−18	592	− 24	29	− 1
	2. ENGLAND, N.E.	5	14	10 more	93	+11	10·6	+ 0.4	43	+ 3	36	+ 1	650	+ 43	32	+ 2
	3 ENGLAND, EAST	4	9	4 more	92	+12	11·7	+ 1·7	61	+14	53	+11	708	+ 7	35	0
	4. MIDLAND COUNTIES	5	8	3 more	90	+12	13·2	+ 1·9	54	+14	47	+12	678	+ 43	34	+ 3
	5. ENGLAND, SOUTH	4	5	0 (average)	86	+11	14·1	+ 2·5	65	+15	57	+13	745	+ 12	36	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	28	22 more	102*	+11	19·7	− 0·4	31	−13	26	−11	651	+ 2	32	0
	7. ENGLAND, N.W.	6	17	12 more	103	+19	15·2	+ 2·2	39	− 9	33	− 9	690	+ 41	33	+ 2
	8. ENGLAND, S.W.	4	11	6 more	105	+21	20·6	+ 5·2	63	+11	56	+10	754*	− 18	37	− 1
	9. IRELAND, NORTH	6	26	20 more	113	+15	18·7	+ 3·7	28	−14	24	−12	616	− 1	30	0
	10. IRELAND, SOUTH	6	14	8 more	106	+15	20·1	+ 3·6	36	− 9	31	− 8	662	− 43	33	− 2
	—CHANNEL ISLANDS	4	10	6 more	112	+21	17·4	+ 4·2	64	+ 8	57	+ 7	776	−104	38	− 5

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was very unsettled and rainy generally, although the earlier days had been fine and bright over England. The rainfall over Ireland, the north of England, and the greater part of Scotland was very heavy.

Temperature was high at the commencement of the week, the absolute maximum readings ranging from 84° in the Midland counties and England S., and from between 80° and 83° in the other English districts, to 70° in Scotland E., and 67° in Scotland N. and over Ireland. Later on the daily maxima were very low for the time of year—especially in the north and north-east. The lowest of the minima, which were registered either on the 17th or 19th, ranged from 37° in Scotland N., 38° in Scotland E., and 39° in Ireland N., to 44° in England S.W., and to 50° in the Channel Islands. The average for the week was considerably below the mean value for the time of year over Ireland and Scotland, and slightly below it in the Midland counties and England N.W.; in most of the other English districts the weekly value just equalled the normal, but in England S. it was a little above it.

Rainfall exceeded the mean in all districts excepting England S.; in the north and west the fall was unusually heavy, being about five times the mean in Scotland N. and W., four times in Ireland N., and three times in England N.E. and N.W. The highest aggregate falls at individual stations were 4·25 ins. at Glasgow, and 3·85 ins. at Ardrossan; at the latter station 3 ins. fell in about 20 hours during the middle of the week.

Bright Sunshine exceeded the mean in most parts of England, but was less elsewhere. The percentage of the possible duration ranged from 57 in England S. and the Channel Islands, 56 in England S.W., and 53 in England E. to 24 in Ireland N., and 17 in Scotland E.

Barometer and Wind.—The distribution of pressure over our Islands during this week was cyclonic, with South-Westerly to North-Westerly winds over the more southern districts, and mainly South-Easterly to North-Easterly winds in the north. Several depressions advanced over us from the Atlantic, the most important travelling completely over the Kingdom in a north-easterly or easterly direction. The disturbance of the 16th was very deep for the time of year, and caused fresh to strong gales from the Westward and North-Westward at many of our northern and north-western stations, and strong South-Westerly to Westerly winds over all the southern parts of the Kingdom.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 139 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0 SCOTLAND, N.	Sumburgh Head	61	41	53·1	45·3	48·9	− 0·9	48	0	6	1·06	+0·60	*	*	*	*
	Stornoway	65	40	55·1	46·3	50·4	− 1·5	59	0	3	0·12	−0·53	49·0	+ 6·2	40	+ 5
	Wick	60	39	54·9	43·6	48·9	− 3·1	48	0	7	0·55	+0·13	*	*	*	*
	Lairg Ⓢ	65	38	58·0	42·7	49·8	− 3·4	55	0	5	0·64	+0·12	*	*	*	*
	Glencarron Ⓢ	66	37	55·7	41·8	48·3	− 5·2	45	1	5	1·42	+0·25	*	*	*	*
	Fort Augustus Ⓢ	65	39	58·5	43·6	50·5	− 4·2	60	0	5	1·30	+0·78	25·8	− 5·0	21	− 4
	Fort William Ⓢ	67	42	58·1	46·3	51·8	− 2·7	69	0	5	1·09	+0·19	26·8	−14·7	22	−12
1. SCOTLAND, E.	Nairn	67	40	58·3	46·3	51·9	− 2·3	69	0	5	1·64	+1·24	*	*	*	*
	Aberdeen	61	42	55·6	46·9	51·0	− 3·0	63	0	6	2·57	+2·17	26·7	−19·3	22	−16
	Braemar Ⓢ	62	39	53·4	43·2	47·9	− 4·1	41	0	6	2·27	+1·70	11·5†	−31·3†	9†	−27†
	Ochtertyre Ⓢ	69	38	59·9	43·4	51·1	− 1·4	64	0	7	3·72	+3·12	*	*	*	*
	Leith	67	41	59·1	46·1	52·2	− 3·7	71	0	7	2·80	+2·38	*	*	*	*
	Marchmont Ⓢ	70	39	57·7	42·9	49·8	− 4·2	55	0	7	2·33	+1·75	30·3	−12·5	25	−11
2. ENGLAND, N.E.	Alnwick Castle	75	42	61·6	? 48·4	? 54·5	? + 0·6	? 88	0	5	1·47	+1·04	*	*	*	*
	Durham	80	40	62·7	46·2	53·9	− 1·7	83	0	5	1·38	+0·94	40·8	+ 0·8	34	0
	Shields	71	42	60·4	48·4	54·0	− 0·5	84	0	6	1·40	+1·00	*	*	*	*
	Scarborough Ⓜ	78	40	61·8	49·3	55·1	− 0·6	92	0	5	1·43	+0·96	*	*	*	*
	York	81	43	63·3	50·6	56·5	− 0·2	102	0	4	1·67	+1·16	47·4	+ 5·4	40	+ 5
	Spurn Head	66	45	60·4	51·3	55·5	− 0·2	95	0	4	1·00	+0·62	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	81	44	66·5	48·7	57·0	− 0·2	105	0	5	0·85	+0·35	53·2	+ 6·2	45	+ 4
	Yarmouth	74	44	63·6	50·9	56·8	+ 0·3	104	0	4	1·40	+0·98	*	*	*	*
	Geldeston	76	44	66·9	48·7	57·2	+ 0·6	106	0	4	0·89	+0·49	61·1	+10·9	53	+ 9
	Cambridge	82	44	68·7	49·9	58·7	+ 0·5	117	0	4	0·60	+0·10	67·5	+21·3	59	+19
	Rothamsted	79	43	67·1	48·6	57·2	0·0	106	0	4	0·70	+0·21	62·2	+16·9	54	+14
4. MIDLAND COUNTIES	Harrogate Ⓜ	78	41	61·4	47·8	54·1	− 1·7	85	0	5	1·71	?	42·2	?	36	?
	Bawtry (Hesley Hall)	84	42	67·6	49·4	57·9	+ 0·6	111	0	5	0·84	+0·34	*	*	*	*
	Loughborough	84	43	66·6	50·4	57·9	− 0·5	111	0	5	0·62	+0·12	*	*	*	*
	Stamford (Duddington)	81	43	66·1	49·6	57·3	− 0·1	107	0	5	0·86	+0·43	*	*	*	*
	Cheadle Ⓜ	? 76	42	? 61·4	47·7	? 54·1	? − 1·2	? 84	0	5	1·03	+0·35	*	*	*	*
	Shirley (near Solihull)	80	41	64·1	48·7	56·9	− 1·4	97	0	5	1·05	?	*	*	*	*
	Churchstoke Ⓜ	79	42	62·6	46·2	53·8	− 1·6	83	0	5	0·71	+0·19	56·8	+12·6	49	+10
	Hereford Ⓜ	83	43	66·0	49·6	57·2	− 0·7	106	0	5	0·55	+0·07	*	*	*	*
	Cirencester	80	41	65·3	47·9	56·0	− 0·2	98	0	4	0·59	+0·07	60·8	+15·2	53	+13
	Oxford	82	43	66·3	50·4	57·8	− 0·4	111	0	4	0·40	−0·09	62·9	+17·6	55	+15
5. ENGLAND, S.	London	84	44	70·0	50·9	59·8	+ 0·3	125	0	4	0·40	−0·07	60·5†	+18·3†	53†	+16†
	North Foreland	75	44	66·0	51·6	58·3	+ 1·8	114	0	4	0·43	?	*	*	*	*
	Dungeness	76	45	67·3	51·6	58·9	+ 1·4	118	0	4	0·29	−0·05	*	*	*	*
	Hastings (St. Leonards)	77	44	67 0	52·3	59·0	+ 1·5	119	0	3	0·58	+0·20	68·0	+13·9	60	+13
	Southampton	76	45	68·6	51·2	59·3	+ 0·2	121	0	5	0·42	0·00	66·4	+16·6	58	+13
	Hurst Castle	75	48	65·9	53·6	59·3	+ 1·0	121	0	4	0·55	+0·13	*	*	*	*
	Shaftesbury Ⓜ	73	42	63·1	49·6	55·9	− 0·2	97	0	3	0·51	−0·02	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	64	42	56·7	46·6	51·3	− 3·6	65	0	6	1·00	0·00	*	*	*	*
	Glasgow	67	41	57·2	46·2	51·3	− 4·1	65	0	7	4·25	+3·65	29·9	− 8·9	25	− 7
	Ardrossan	63	43	55·4	47·1	51·0	− 4·5	63	0	7	3·85	+3·30	*	*	*	*
	Glenlee Ⓢ	72	42	59·5	46·0	52·3	− 2·5	72	0	6	2 98	+2·26	*	*	*	*
	Gilcrux (Cumberland)	73	41	58·4	46·6	52·1	− 2·5	71	0	7	1·79	?	28·9	?	24	?
	Douglas Isle of Man	71	44	59·2	47·2	52·9	− 2·0	76	0	7	3·17	+2·69	34·4	−17·3	29	−15
7. ENGLAND, N.W.	Stonyhurst	78	43	60·6	48·4	54·1	− 2·1	85	0	5	2·78	+2·03	38·8	− 6·3	33	− 6
	Blackpool Ⓜ	79	45	61·9	49·2	55·1	− 1·4	92	0	6	1·94	+1·46	32·2	−13·0	27	−11
	Manchester (Prestwich)	80	43	62·0	48·7	54·9	− 1·5	90	0	5	1·82	+1·14	38·4	?	33	?
	Liverpool Obsy. (Bidston)	80	45	60·6	49·4	54·6	− 2·4	88	0	6	1·38	+0·93	*	*	*	*
	Llandudno Ⓜ	76	47	62·0	50·8	56·0	− 1·1	98	0	6	1·21	+0·78	*	*	*	*
	Holyhead	69	46	60·0	49·0	54·1	− 2·6	85	0	6	1·24	+0·80	*	*	*	*
8. ENGLAND, S.W.	Llandovery	83	43	65·9	48·3	56·5	− 0·1	102	0	5	1·06	+0·41	*	*	*	*
	Pembroke	68	48	58·1	50·7	54·1	− 1·6	85	0	4	0·86	+0·42	55·3	+ 1·2	48	+ 1
	Clifton	79	47	64·0	52·7	58·0	+ 0·8	112	0	3	0·89	+0·39	*	*	*	*
	Arlington (N. Devon)	76	50	65·7	? 51·9	? 58·4	? + 3·1	? 115	0	5	1·50	+0 80	*	*	*	*
	Cullompton Ⓜ	75	45	64·8	50·4	57·1	− 0·5	106	0	5	0·57	+0·01	54·6	+ 7·6	48	+ 7
	Falmouth	71	48	62·2	51·7	56·6	− 0·5	102	0	5	1·32	+0·74	71·5	+17·7	63	+15
	Plymouth	74	47	62·8	52·1	57·1	− 1·7	106	0	4	1·22	+0·78	69·8	+20·8	62	+18
	Prawle Point	68	45	61·0	50·9	55·6	− 0·3	95	0	3	1·28	+0·92	*	*	*	*
9. IRELAND, N.	Malin Head	67	43	55·1	46·1	50·3	− 4·4	58	0	6	2·93	?	*	*	*	*
	Londonderry	65	43	57·4	46·4	51·5	− 5·1	77	0	7	2·99	+2·43	*	*	*	*
	Edenfel (Omagh)	62	40	54·9	45·0	49·6	− 5·0	53	0	6	3·44	+2·86	*	*	*	*
	Belmullet	62	43	56·4	46·6	51·2	− 4·9	64	0	6	2·10	+1·44	*	*	*	*
	Markree Castle	63	43	56·8	46·3	51·2	− 3·4	64	0	7	2·15	+1·47	28·8	−12·1	24	−11
	Armagh	67	39	58·1	44·8	51·0	− 4·6	63	0	6	2·98	+2·44	27·6	−14·4	23	−12
	Donaghadee	63	42	57·9	46·1	51·6	− 3·9	67	0	7	2·44	+1·99	*	*	*	*
	Edgeworthstown	67	43	57·0	46·5	51·4	− 4·8	66	0	5	1·48	+0·87	*	*	*	*
10. IRELAND, S.	Dublin	67	43	61·0	49·2	54·7	− 3·0	89	0	6	1·11	+0·70	40·2	− 6·4	34	− 6
	Parsonstown	67	40	59·6	47·6	53·2	− 3·1	78	0	7	1·00	+0·47	31·1	− 9·6	27	− 8
	Kilkenny	67	41	59·9	47·0	53·0	− 3·8	77	0	7	1·16	+0·64	*	*	*	*
	Roche's Point	66	46	60·0	50·0	54·7	− 3·0	89	0	4	1·34	+0·61	*	*	*	*
	Valencia	60	43	57·4	49·1	53·0	− 3·8	77	0	6	2·56	+1·76	37·4	−10·5	33	− 9
	Killarney	63	40	59·4	47·3	52·9	− 3·1	76	0	7	1·36	?	*	*	*	*
	Foynes	?	40	?	46·6	?	?	?	?	6	1·34	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	50	62·4	52·9	57·3	+ 0·2	107	0	4	0·89	+0·49	60·0	?	53	?
	Jersey	81	51	64·1	54·6	59·0	+ 0·1	119	0	4	1·07	+0·65	68·2	+10·5	61	+ 9

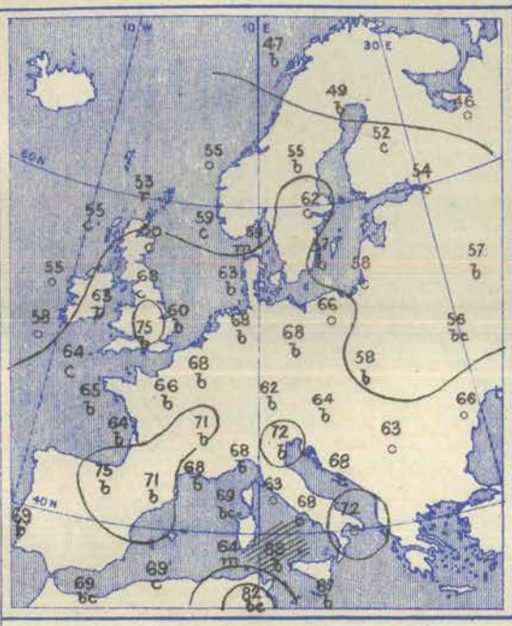
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

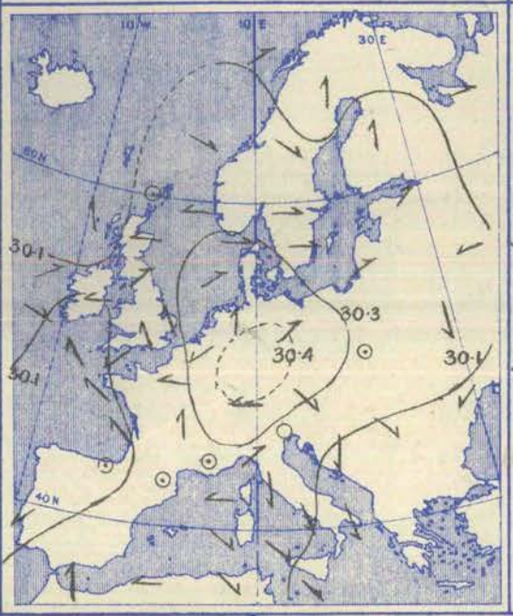
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 13th June.

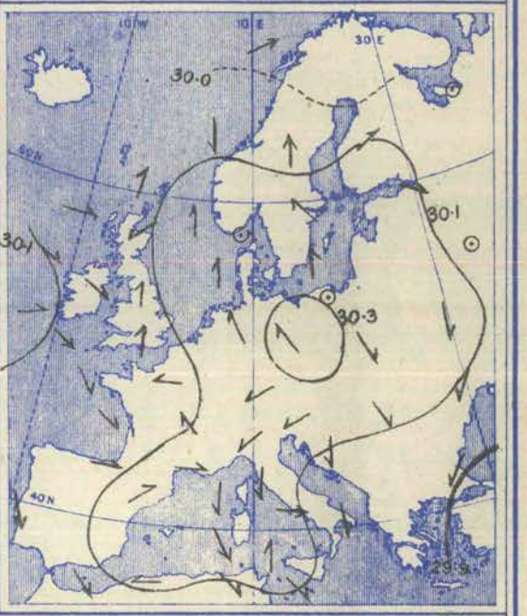
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but showery on our extreme north-west coasts. Dull at many of the Italian stations, as well as in the north of Russia. Heavy rain falling later in many parts of Ireland, Scotland, and the west of Norway, with thunderstorms in several places; no important change occurring elsewhere.

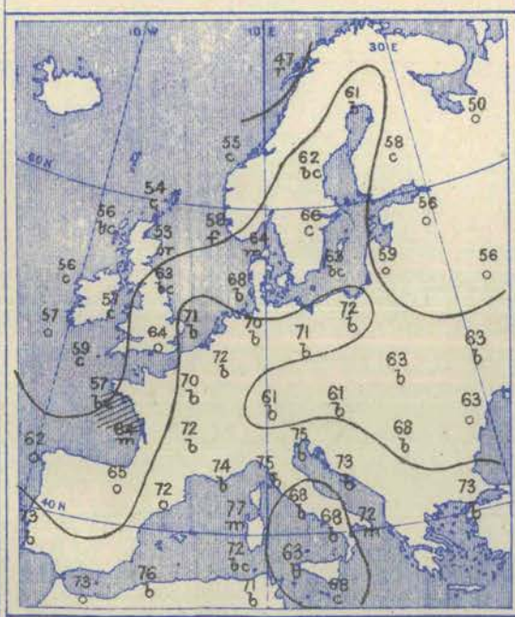
Temperature fallen in the north of our Islands, but risen in most other parts of Europe. Morning readings highest, (1) 82° at Sfax, 75° at Biarritz, and 72° at Trieste, Brindisi, and Aumale; (2) 75° in London, 72° at Jersey, and 70° at York, Loughborough, and Oxford; above 65° at most of the English stations. Lowest, 46° at Archangel, 47° at Bodö, 49° at Haparanda, and 52° at Kuopio. Rising during day to 80° and upwards in many parts of England and central and southern Europe; reaching 90° at Gap, and 92° at Bordeaux.

Wind light from the South-Eastward in most parts of Great Britain, France, and the Netherlands, but Westerly or South-Westerly in the west of Ireland, as well as over Scandinavia, Denmark, and the Baltic. Variable in Germany; Northerly in Italy and Austria; calm in the south of France; North-Easterly in the south of Russia. Subsequently veering to the North-Westward on our own western coasts; backing to the Southward at most of the Scandinavian and Danish stations. No important change occurring elsewhere.

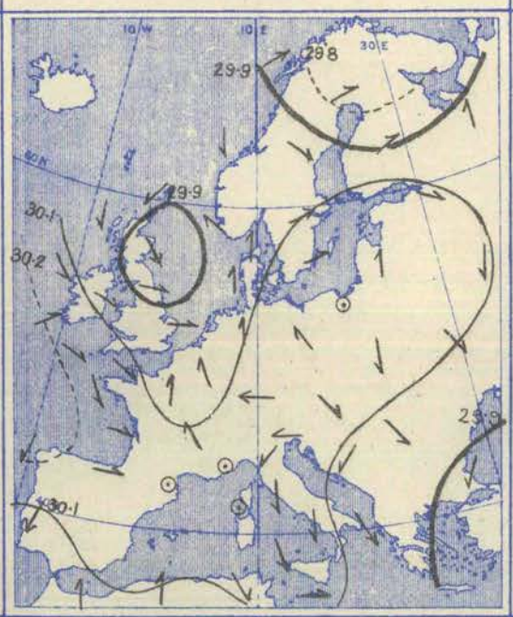
Barometer highest, 30·4 ins. and upwards over the central and southern parts of Germany; 30·2 ins. and upwards in an anticyclone embracing all the more central parts of Europe, and extending over the east and south-east of England. Lowest, 30·1 ins. and less at many of the south-western, south-eastern, and extreme northern stations. Shallow depression, with readings below 30·0 ins., forming later over the north of England; barometer falling in most of the north-western, northern, and central countries.

Monday, 14th June.

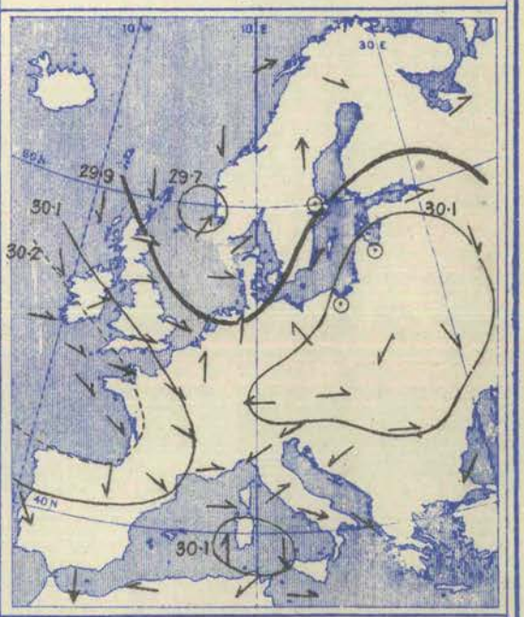
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over the greater part of England and Ireland, but dull and rainy in Scotland. Fine over the Continent as a whole, but dull at some of the Russian and Norwegian stations, with rain at Helsingfors and Bodö. Rain falling later at several of our own northern stations, as well as in many parts of Scandinavia, Denmark, Germany, and the south of France; thunderstorms occurring at Fanö, Cuxhaven, Lyons, and Clermont.

Temperature fallen several degrees in our Islands, but risen at most of the Continental stations. Morning readings highest, (1) 77° at Sanguinaire, 76° at Algiers, and 75° at Toulon, Trieste, and Aumale; (2) 73° at Swinemünde, and 72° at Neufahrwasser and Brussels; touching 70° or more on the east and south-east coasts of England. Lowest, 47° at Bodö, 53° at Wick, Aberdeen, Ardrossan, and Liverpool, and 54° at Sumburgh Head. Rising during day to 70° and upwards at many of the English stations, and reaching 76° at Dungeness; exceeding 80° in several parts of central and southern Europe, and touching 91° at Lyons, and 93° at Gap.

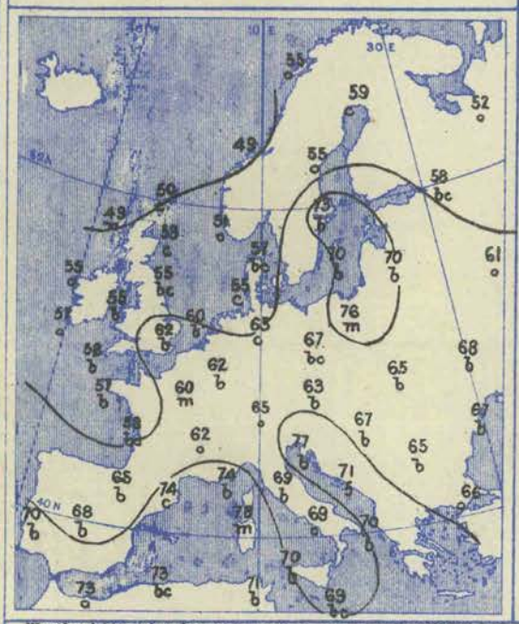
Wind light to moderate from North-West in Ireland and Scotland, and from the West over England and the north and west of France; Southerly over Denmark, the Netherlands, and the north-east of France. Moderate from the West or South-West over Scandinavia and Finland; Northerly over Austria, Italy, and the south of Russia; calm in the south of France; Northerly on the Portuguese coast. Subsequently veering to the North-Westward in the west of France; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an area lying to the south-westward of our Islands, and also in another system over Germany. Lowest, 29·8 ins. and less in a depression over Lapland; 29·9 ins. and less in two other disturbances, one lying over the north-eastern parts of Great Britain and the adjacent parts of the North Sea, and the other over the Black Sea and Asia Minor. Depression over Great Britain subsequently travelling on to the Norwegian coasts, and barometer rising in all parts of our Islands.

Tuesday, 15th June.

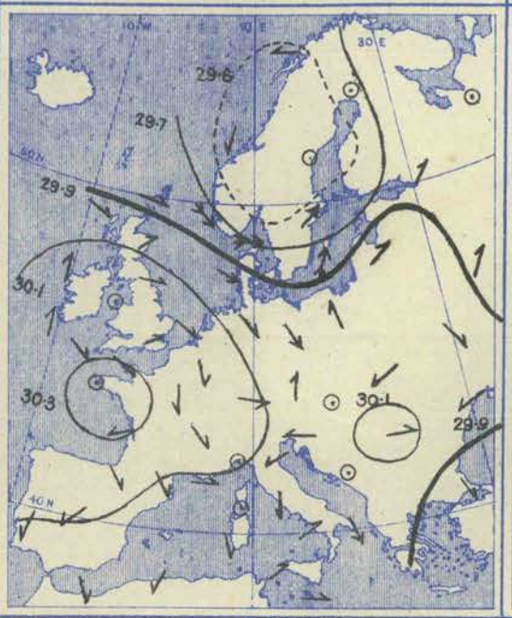
Temperature and Weather.

8 a.m.

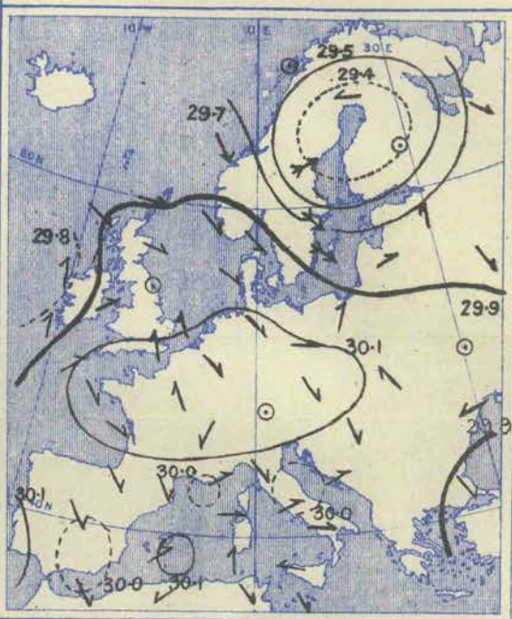


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western, central, and southern Europe generally, but dull on our own extreme western coasts, with rain at Stornoway, and passing showers at Malin Head. Dull over the greater part of Scandinavia and northern Russia, with rain at Christiansund. Heavy rain setting in later over Ireland and the west of Scotland—amount reaching 2·3 ins. at Ardrossan. Very heavy fall (2·4 ins.) reported also at Haparanda, and 1·7 ins. at Gap. Thunder and lightning occurring in some parts of France.

Temperature fallen at all but the Russian and Austrian stations. Morning readings highest, (1) 78° at Nice, Toulon, and Sanguinaire, and 77° at Trieste; (2) 76° at Neufahrwasser, 73° at Stockholm, and 71° at Memel; above 60° in the south-east of England. Lowest, 49° at Christiansund and Stornoway, 50° at Sumburgh Head and Wick, and 51° at Skudesnaes and Malin Head. Daily maxima below 60° at most of our own western and northern stations, but thermometer reaching 75° in London, and also in Paris. Exceeding 80° in many parts of southern Europe, and reaching 91° at Gap and Florence.

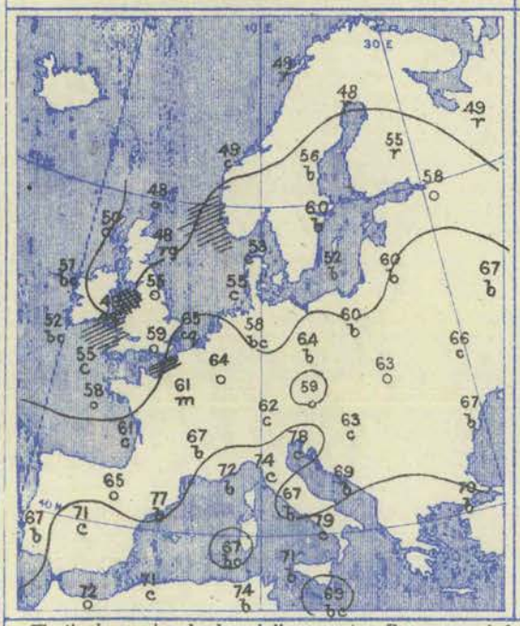
Wind light to moderate from the Southward in Ireland, and from the South-Westward or Westward over Great Britain. Strong to a gale from the Westward or North-Westward on the eastern shores of the North Sea, and from the South-Westward or Southward in the south of Sweden; calm over the Gulf of Bothnia and the extreme north of Russia. Light to moderate from the North-Westward over Germany, the Netherlands, and the central and southern parts of France; North-Easterly over Spain and the Bay of Biscay. Subsequently freshening from the Southward on our western coasts, and increasing to a gale at Belmullet at night. Westerly gale springing up in the Baltic.

Barometer highest, 30·3 ins. and upwards in the north-west of France; 30·1 ins. and upwards in an anticyclone embracing the whole of Ireland, England, the Netherlands, western Germany, France and Spain. Lowest, 29·6 ins, and less in a large depression over Scandinavia; 29·8 ins. and less in another system over Asia Minor. Scandinavian depression subsequently travelling on to the Gulfs of Bothnia and Finland; new and deep disturbance advancing to our own north-west coasts.

Wednesday, 16th June.

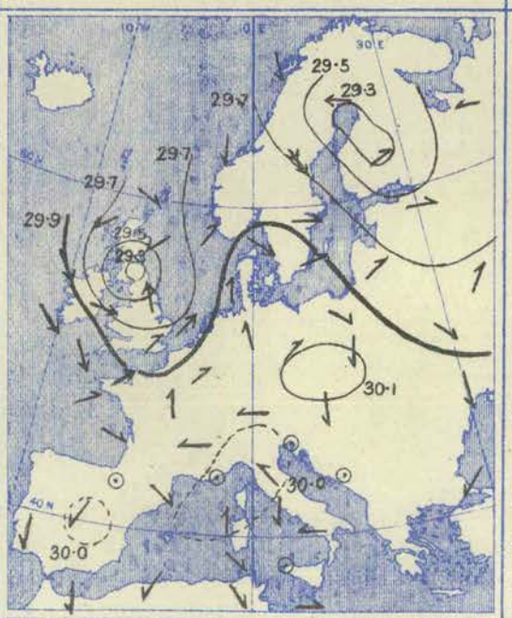
Temperature and Weather.

8 a.m.

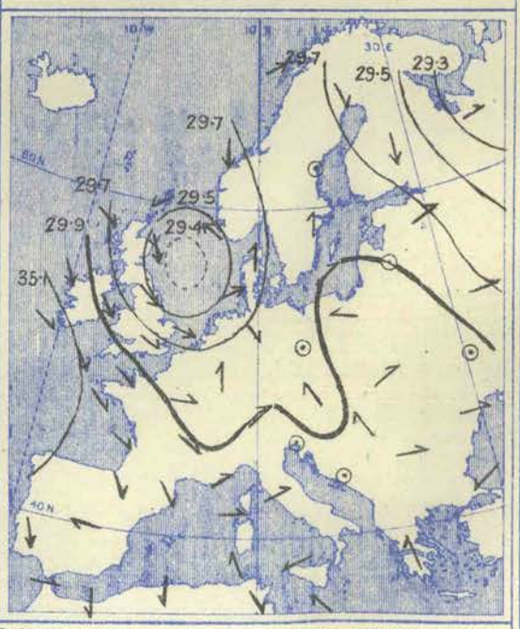


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western Europe as a whole, with heavy rain at most of our own northern stations, and passing showers in the south; rain falling also in the extreme northern parts of Russia and Scandinavia. Fine over the southern and eastern parts of the Continent generally, as well as over Denmark, the Baltic, and the southern parts of Sweden. Considerable quantities of rain falling over Scotland during day, and smaller quantities in most other parts of western and northern Europe. Thunderstorms occurring at some of the French stations, and also at Moscow.

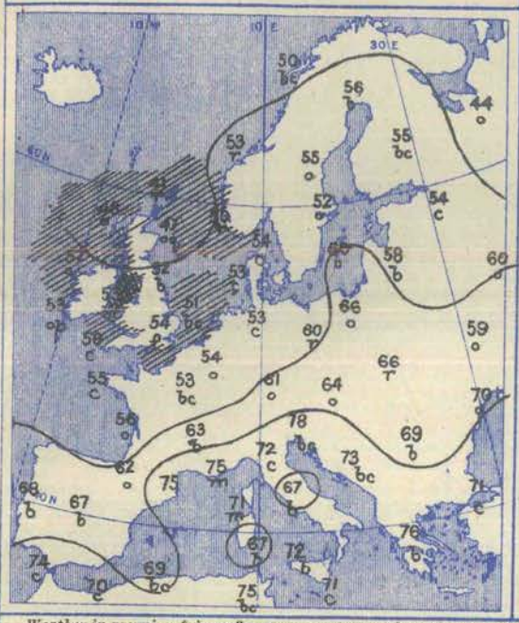
Temperature fallen in most places. Morning readings highest, 79° at Naples, 78° at Trieste, 77° at Barcelona, and 76° at Palma; above 65° over southern and south-eastern Europe generally. Lowest, 44° at Ardrossan, 46° at Wick and Donaghadee, and 47° at Nairn; below 50° in the north-west and extreme north of our Islands generally. Daily maxima below 50° at some of the northern Scotch stations; thermometer exceeding 60° in the south of our Islands, and reaching 66° in London. Exceeding 80° in many parts of central and southern Europe, and touching 91° at Madrid.

Wind strong from the North-Westward on our own western coasts, with a gale in the Irish Sea; fresh from the Southward over the eastern and central parts of England, and light from the same quarter over the Netherlands, Germany, and Denmark; light from the North-Eastward in the north of Scotland. Easterly in the extreme northern parts of Russia and Scandinavia; strong to a gale from the North-Westward over the Gulfs of Bothnia and Finland. Light and variable over southern Europe as a whole. Subsequently increasing to a strong gale from the Westward in the north of England, and from the North-Westward in the east of Scotland.

Barometer highest, 30·0 ins. and upwards over all the more central and southern parts of the Continent. Lowest, 29·3 ins. and less in two well-marked depressions—one lying with its centre near Leith, the other over the northern part of the Gulf of Bothnia. Both depressions subsequently travelling north-eastwards—the former to the White Sea, and the latter to the central parts of the North Sea; barometer rising again in our Islands.

Thursday, 17th June.

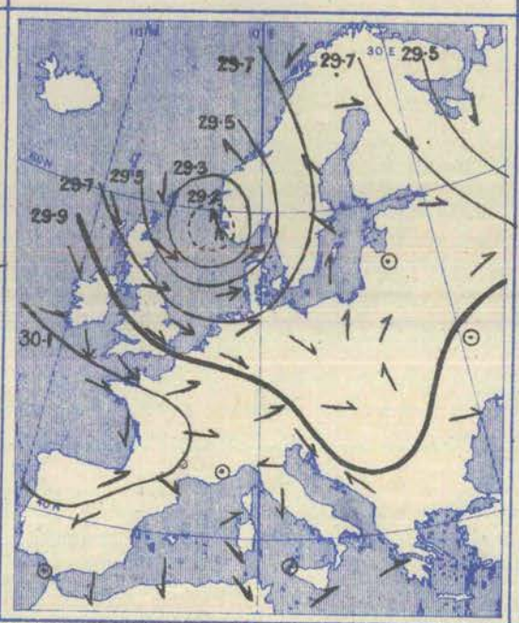
Temperature and Weather. 8 a.m.

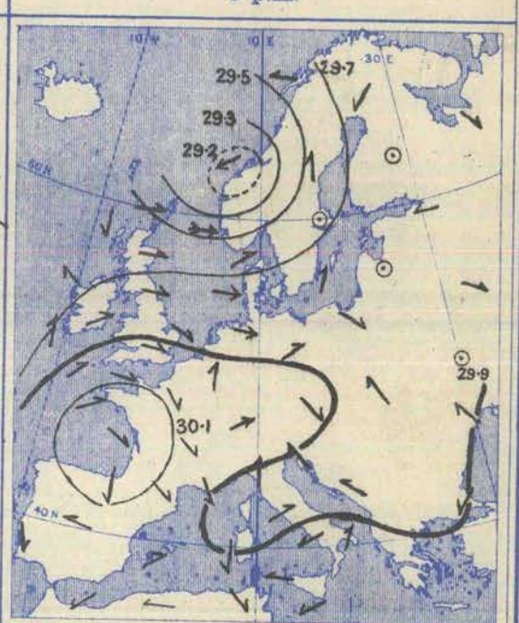


Weather in morning fair or fine over western and southern Europe as a whole, but showery at one or two of our own western and southern stations, and rainy in the Shetlands and the west of Norway, as well as at Karlstad. Dull in Germany, northern Austria, and western and central Russia, with rain at Berlin and Lemberg. Rainy weather extending from the west later over the whole of our Islands and their neighbourhood—amounts large at many of the Irish and English stations; heavy rain falling over central Europe also.

Temperature fallen over Great Britain, France, the Netherlands, and western Germany; risen or changed irregularly elsewhere. Morning readings highest, 78° at Trieste, 76° at Patras, and 75° at Toulon, Barcelona, and Sfax; above 65° over southern and south-eastern Europe generally. Lowest, (1) 44° at Archangel; (2) 47° at Sumburgh Head, Nairn, and Aberdeen, and 48° at Liverpool; below 55° in nearly all parts of the United Kingdom. Daily maxima below 60° at most of our own coast stations, but a little above it in the eastern and southern parts of Great Britain. Thermometer exceeding 70° in some parts of Germany and the south of France, and reaching 80° at Perpignan, 86° at Florence, and 90° at Brindisi.

Barometer and Wind. 8 a.m. and 6 p.m.



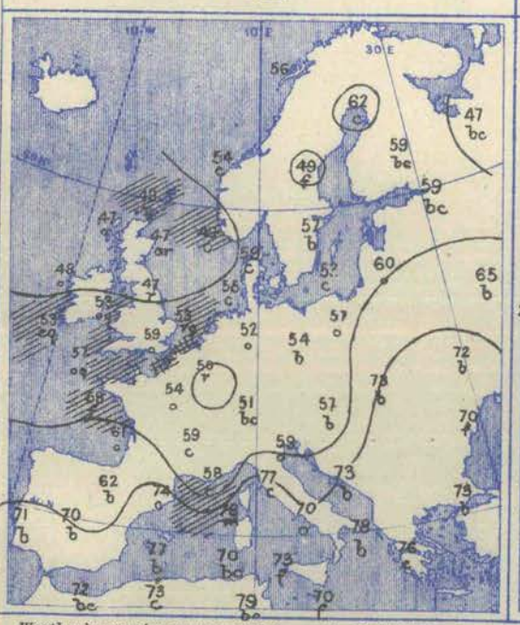


Wind fresh to strong from the Westward or North-Westward over our Islands and the neighbouring parts of the Continent, with a gale at Aberdeen; South-Westerly in Germany and Denmark; Southerly over the Baltic; South-Easterly in Scandinavia, with a gale at Skudesnaes. Light from the Westward or North-Westward over the northern and central parts of Russia. Calm or variable over southern and south-eastern Europe as a whole, but North-Easterly over the Spanish Peninsula. Subsequently backing to the Southward on our western coasts, and to the South-Westward over England; gale at Aberdeen subsiding quickly.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the Bay of Biscay, the west of France, and the north of Spain; 30·0 ins. and upwards in another system over the south of Italy. Lowest, 29·2 ins. and less in a well-marked depression off the south-west of Norway; 29·5 ins. and less over northern Russia. Norwegian depression subsequently moving north-eastwards and partially filling up; new disturbance advancing over our western coasts at night.

Friday, 18th June.

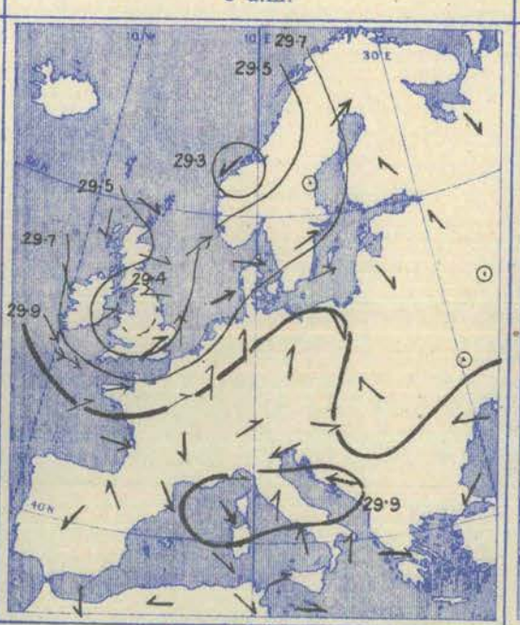
Temperature and Weather. 8 a.m.

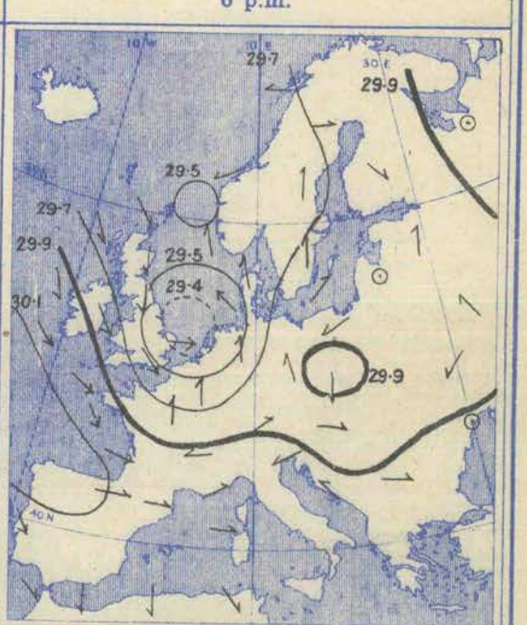


Weather in morning very unsettled over the British Islands and western Europe, as well as over Poland and the eastern parts of Austria-Hungary. Fine and bright over Russia and the extreme south-east and south of Europe. Rain falling later over the British Islands generally—heavily on the north-east and east coasts; thunderstorms occurring at Yarmouth and Paris; squally conditions prevailing over England and the north of France generally, but weather clearing up in Ireland.

Temperature changing very fitfully—much lower over central Europe than on Thursday. Morning readings highest, (1) 78° at Brindisi and Sanguinaire, and exceeding 70° at many of the Mediterranean and Spanish stations, as well as over Turkey and over Russia; 65° at Moscow, 60° at Riga and Helsingfors; (2) 59° at Jersey, London, and Oxford, 54° at Pembroke and Roche's Point. Lowest, (1) 45° at Malin Head, 47° at Donaghadee, Stornoway, Shields, and Aberdeen; (2) 47° at Archangel. Rising later to between 50° and 55° at the Scotch stations, and to between 60° and 66° over England; exceeding 80° in most parts of southern Europe, and reaching 95° at San Fernando. Succeeding night cold over United Kingdom.

Barometer and Wind. 8 a.m. and 6 p.m.



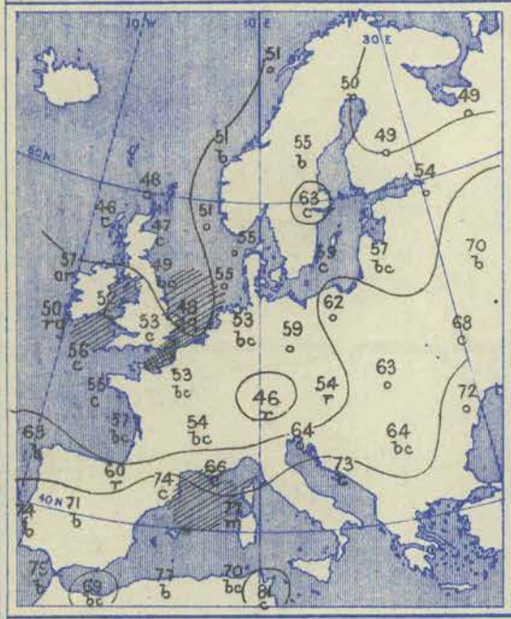


Wind light and very variable over Spain, the south-western and central parts of France, and south Germany, also over Russia and Finland. Fresh to a gale from North and North-West in Ireland, and from between west and south over England, the Channel, and north of France. Southerly over the Netherlands, South-Westerly over the southern parts of Scandinavia. A separate and rather complex cyclonic circulation prevailing over the northern parts of the Mediterranean, Italy, and the Adriatic. Westerly and North-Westerly gales spreading over England later, but subsiding in Ireland.

Barometer highest, 30·0 ins. and more over Spain, the south-west of France, and several parts of central Europe, and exceeding 29·9 ins. over south-western Europe. Lowest, below 29·3 ins. in a small depression near Christiansund; below 29·4 ins. in another and well-marked system lying over the Irish Sea—the gradients being steep over Ireland, the south of England, and the north of France. Latter system moving eastwards later, and barometer rising very quickly in its rear.

Saturday, 19th June.

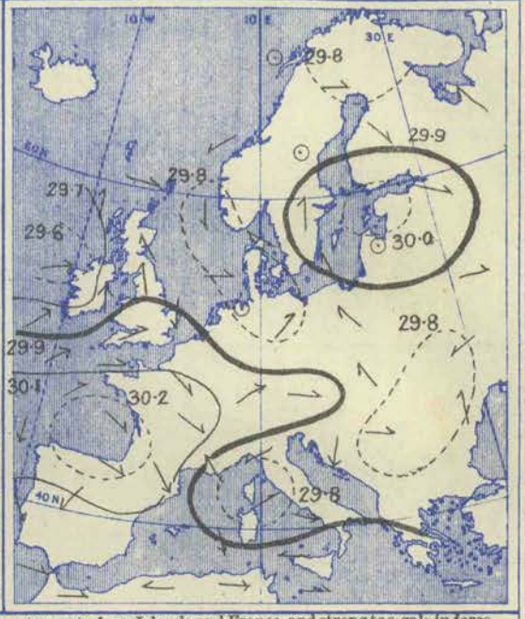
Temperature and Weather. 8 a.m.



Weather in morning fair or fine over our Islands as a whole, but dull and rainy in the west of Ireland. Dull over all the more central parts of the Continent, as well as in the south of France, with rain in several places; fine in Spain and the northern and central parts of France, as well as at many of the Scandinavian stations. Rain spreading later from the westward over all but the extreme northern parts of our Islands, and also over the neighbouring Continental countries—amounts large at many of our own western stations.

Temperature fallen in England, France, and the Netherlands; changed rather irregularly elsewhere. Morning readings highest, 81° at Sfax, 79° at San Fernando, and 77° at Sanguinaire and Algiers; above 70° in many parts of southern and south-eastern Europe. Lowest, (1) 43° at Sumburgh Head, 46° at Stornoway, and 47° at Aberdeen; (2) 49° at Archangel and Kuopio. Daily maxima below 55° at many of our own northern stations, but thermometer exceeding 60° in the central and southern districts, and reaching 67° at Dungeness. Exceeding 70° in the south of France, and rising as high as 93° at Lisbon.

Barometer and Wind. 8 a.m. 6 p.m.



Wind North-Westerly over the greater part of our Islands and France, and strong to a gale in force on our east and south-east coasts; Southerly in the west of Ireland; South-Westerly over western and southern Germany; Southerly or South-Easterly over eastern Germany, Denmark, and the south of Sweden; Easterly or North-Easterly over the southern parts of Norway. Variable in Russia; light from the Eastward in Austria, and from the Northward at most of the Spanish stations. Subsequently backing to the South-Westward in the south of our Islands, and increasing to a moderate gale; shifting to the South-Eastward in Scotland.

Barometer highest, 30·2 ins. and upwards in an anticyclone over the Bay of Biscay and the north of Spain. Lowest, 29·5 ins. and less in a well-marked depression over the south-eastern corner of the North Sea; 29·7 ins. and less in shallow systems lying respectively over the west of Norway and over northern Russia; 29·8 ins. and less in a large disturbance over northern Italy. North Sea depression subsequently moving eastwards; new and well-marked disturbance appearing off the north-west of Ireland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows;—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The large anticyclone which was developed over Europe at the close of the preceding week dispersed quickly after the 13th, and for the remainder of the time the weather in all but the extreme southern parts of the Continent was affected by some depressions which advanced from the Atlantic. At first the disturbances were too shallow to occasion anything more than heavy thunder rains—mostly in Ireland and Scotland. Later on, however, two systems of unusual depth for the time of year advanced directly across our Islands and the North Sea, their progress being attended by further heavy falls of rain in the west and north, and by gales from between South-West and North-West on many parts of our coasts. The Westerly to North-Westerly gale of the 16th blew with considerable severity in many of our northern districts, while the North-Westerly gale which sprang up on the night of the 18th (in the rear of the second depression) was equally strong over the North Sea and our east coasts. At the close of the week further depressions were advancing from the westward, and heavy rain was again setting in over all the more western parts of our Islands.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 140.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	13·5	−23·8	11	−20	EASTBOURNE	65·2	+14·1	57	+11
OSWALDKIRK (Yorkshire)	40·7	+ 1·9	34	+ 1	VENTNOR	71·0	?	62	?
WORKSOP	46·0	+ 8·0	39	+ 6	SOUTHPORT	37·9	?	32	?
THURCASTON (Leicestershire)	57·4	+16·8	49	+14	COLWYN BAY	46·7	?	40	?
MARGATE	60·7	+16·7	53	+14	NEWQUAY	59·4	+ 6·5	53	+ 6
WESTBOURNE (Sussex)	56·7*	+ 6·7	50*	+ 5	TORQUAY	68·3*	+13·6	60*	+11
BRIGHTON	69·6	+18·1	61	+16	GUERNSEY	65·0*	+ 5·7	58*	+ 4

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd. Lith, 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W.; R. H. SCOTT, F.R.S., SECRETARY.

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV. No. 25.] *Third Series.* WEEK ENDING SATURDAY, JUNE 26TH, 1897. [*Price 6d.* *Annual Subscription, post paid, £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 146.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	38	60·2	46·7	52·9	1 below	76	+ 7	0	− 1	594	+ 6	615	− 7
	1. SCOTLAND, EAST	75	40	63·7	48·4	55·5	0 (average)	95	+12	0	0	718	− 23	661	+ 12
	2. ENGLAND, N.E.	83	41	65·6	50·5	57·6	1 above	109	+20	0	0	797	+ 54	471	− 78
	3. ENGLAND, EAST	84	44	70·8	52·3	60·9	3 above	132	+30	0	0	1037	+107	493	−124
	4. MIDLAND COUNTIES	84	43	70·4	52·2	60·7	3 above	131	+29	0	0	1033	+ 63	504	−115
	5. ENGLAND, SOUTH	90	46	70·4	54·8	62·0	3 above	140	+31	0	0	1154	+126	297	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	73	38	63·8	49·9	56·4	0 (average)	101	+13	0	0	792*	− 10	441	− 21
	7. ENGLAND, N.W.	80	45	67·4	52·0	59·2	2 above	120	+23	0	0	898	+ 55	367	− 92
	8. ENGLAND, S.W.	84	46	68·6	54·5	61·1	3 above	134	+31	0	0	1129	+128	223	−138
	9. IRELAND, NORTH	72	40	63·4	49·4	55·9	1 below	97	+ 5	0	0	854	− 35	403	+ 8
	10. IRELAND, SOUTH	74	48	65·8	53·4	59·1	1 above	120	+20	0	0	1112	+ 63	242	− 57
	—CHANNEL ISLANDS	81	51	67·8	55·9	61·5	3 above	137	+28	0	0	1356	+214	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 146.)	Rainfall. For the Week. Number of Rainy Days	Total Fall.	More or less than the mean for the Week	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean
			10ths of in.	10ths of ins.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	6	1 less	111	− 2	18·5	− 2·6	31	− 8	25	− 7	648	+ 68	30	+ 3
	1. SCOTLAND, EAST	3	6	1 more	101	+11	14·3	+ 1·1	34	− 8	28	− 6	626	− 31	29	− 2
	2. ENGLAND, N.E.	2	4	0 (average)	95	+10	11·0	+ 0.4	37	− 2	31	− 2	687	+ 41	32	+ 2
	3 ENGLAND, EAST	2	2	3 less	94	+11	11·9	+ 1·4	45	− 1	39	− 1	753	+ 6	35	0
	4. MIDLAND COUNTIES	1	1	4 less	91	+10	13·3	+ 1·5	37	− 5	32	− 4	715	+ 38	33	+ 1
	5. ENGLAND, SOUTH	1	3	1 less	87	+ 9	14·4	+ 2·4	44	− 4	38	− 4	789	+ 8	37	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	6	0 (average)	107	+12	20.3	− 0·4	33	−14	28	−12	684	− 12	31	− 1
	7. ENGLAND, N.W.	2	2	3 less	105	+18	15·4	+ 1·9	42	− 6	35	− 5	732	+ 35	33	+ 1
	8. ENGLAND, S.W.	2	3	3 less	107	+19	20·9	+ 5·0	43	− 9	38	− 8	797*	− 27	37	− 1
	9. IRELAND, NORTH	5	11	6 more	118	+17	19·8	+ 4·3	35	− 7	30	− 5	651	− 8	30	− 1
	10. IRELAND, SOUTH	4	10	4 more	110	+16	21·1	+ 4·0	29	−15	24	−14	691	− 58	32	− 3
	—CHANNEL ISLANDS	3	4	0 (average)	115	+20	17·8	+ 4·2	52	+ 3	46	+ 2	828	−102	39	− 5

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this week varied greatly. Over Scotland and Ireland it was dull, and rather cool, with occasional falls of rain. Over England, however, after being cool and dry during Sunday and Monday, it gradually became very hot, this condition culminating in violent thunderstorms over the southern and south-eastern counties on Thursday afternoon. The remainder of the week was cooler but close and changeable, thunderstorms again being experienced over the south of England on Saturday evening.

Temperature was above the mean over England, as well as in Ireland S. and the Channel Islands, just equal to it in Scotland E. and W., and a little below it in Scotland N. and Ireland N. The highest of the maxima were recorded during the middle of the week, when they ranged from 90° in England S. (i.e., London, on 24th) and 84° in England E., the Midland counties, and England S.W., to 73° in Scotland W., and 72° in Scotland N. and Ireland N. The lowest of the minima, which were registered, as a rule, on the 20th, ranged from 38° in Scotland N. and W. to 48° in Ireland S., and to 51° in the Channel Islands.

Rainfall was considerably in excess of the mean in Ireland and to a slight extent in Scotland E.; just equal to it in England N.E., Scotland W. and the Channel Islands; in all other districts there was a deficit. The falls, however, were very local.

Bright Sunshine was less than the normal amount in all districts except the Channel Islands. The percentage of the possible duration ranged from 25 to 28 in Scotland, from 24 to 30 over Ireland, and from 31 to 39 over England. In the Channel Islands the percentage was 46.

Barometer and Wind.—The distribution of pressure during this period underwent frequent changes. At the commencement of the week a well-defined depression was moving eastwards over England, causing Westerly winds in the south, Easterly winds in the north, and Northerly and North-Westerly breezes in the west. By Monday this system had disappeared, and an anticyclone was spreading over our southern counties from the southward, but a new disturbance had reached our extreme north-west coasts. The wind consequently became South-westerly very generally. By Wednesday the anticyclone had moved south-eastwards and the barometer was falling over the United Kingdom, with light Southerly to South-Easterly winds, and on the following day a "hollow," with two or three distinct minima, lay over England and the North Sea, the winds being variable in direction. The violent thunderstorms, which occurred at this time, were accompanied by an unusually severe squall of the nature of a tornado in some of the northern and north-eastern suburbs of London and in Essex. During the remainder of the week the distribution was mainly anticyclonic over all the northern parts of the Kingdom, but the south was still influenced by thunderstorm disturbances over the Channel and Bay of Biscay.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 145 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0 SCOTLAND, N.	Sumburgh Head	59	40	55·6	44·0	49·4	− 1·2	52	0	4	0·13	−0·32	*	*	*	*
	Stornoway	65	40	59·7	45·3	52·0	− 0·6	70	0	4	0·11	−0·55	46·5	+ 3·3	37	+ 2
	Wick	66	41	61·0	46·9	53·5	+ 0·5	81	0	4	0·24	−0·22	*	*	*	*
	Lairg ℌ	72	38	64·3	45·3	54·1	− 0·3	85	0	3	0·19	−0·36	*	*	*	*
	Glencarron ℌ	66	40	59·5	46·1	52·3	− 2·0	72	0	4	1·15	0·00	*	*	*	*
	Fort Augustus ℌ	66	46	61·2	49·6	54·0	− 1·7	84	0	5	0·67	+0·08	19·9	−11·0	16	− 9
	Fort William ℌ	68	46	60·4	50·0	54·8	− 0·6	90	0	6	1·57	+0·61	27·3	−15·4	22	−13
1. SCOTLAND, E.	Nairn	71	43	63·7	47·9	55·3	− 0·2	93	0	3	0·54	+0·14	*	*	*	*
	Aberdeen	70	45	62·0	49·0	55·1	+ 0·2	92	0	3	0·35	−0·05	43·6	− 2·3	35	− 2
	Braemar ℌ	63	40	59·5	47·2	52·9	− 0·3	76	0	3	0·71	+0·07	28·8†	−13·5†	23†	−12†
	Ochtertyre ℌ	71	46	64·9	50·6	57·3	+ 0·8	107	0	4	1·36	+0·78	*	*	*	*
	Leith	71	43	66·0	48·4	56·6	0·0	102	0	3	0·21	−0·21	*	*	*	*
	Marchmont ℌ	75	40	65·9	47·3	56·0	+ 1·1	98	0	3	0·18	−0·40	36·3	− 5·8	30	− 5
2. ENGLAND, N.E.	Alnwick Castle	74	41	63·6	48·3	55·4	+ 0·5	94	0	3	1·06	+0·64	*	*	*	*
	Durham	81	45	68·2	50·0	58·5	+ 1·8	116	0	3	0·51	+0·09	42·7	+ 3·6	36	+ 3
	Shields	80	44	64·7	48·4	56·0	+ 0·4	98	0	3	0·66	+0·24	*	*	*	*
	Scarborough ℌ	83	46	66·1	51·6	58·4	+ 1·7	115	0	1	0·08	−0·38	*	*	*	*
	York	81	45	68·3	52·0	59·6	+ 1·9	123	0	1	0·04	−0·48	34·7	− 5·4	29	− 4
	Spurn Head	74	48	62·9	52·7	57·4	+ 0·4	108	0	2	0·04	−0·31	*	*	*	*
3. ENGLAND, E.	Hillington ℌ	81	46	72·5	51·4	61·2	+ 3·0	134	0	1	0·16	−0·35	48·8	+ 3·7	42	+ 4
	Yarmouth	72	47	65·7	53·7	59·3	+ 1·6	121	0	2	0·03	−0·41	*	*	*	*
	Geldeston	84	47	70·9	52·3	61·0	+ 3·1	133	0	1	0·01	−0·39	49·1	+ 0·1	43	0
	Cambridge	83	47	73·6	52·4	62·3	+ 2·9	142	0	1	0·01	−0·50	44·4	− 0·9	39	0
	Rothamsted	82	44	71·4	51·5	60·8	+ 2·6	132	0	4	0·64	+0·14	36·7	− 8·2	32	− 7
4. MIDLAND COUNTIES	Harrogate ℌ	79	45	66·7	51·5	58·6	+ 1·8	116	0	1	0·01	?	38·1	?	32	?
	Bawtry (Hesley Hall)	83	47	72·1	52·9	61·7	+ 3·5	138	0	2	0·05	−0·45	*	*	*	*
	Loughborough	84	46	73·3	52·4	62·1	+ 2·7	141	0	0	—	−0·50	*	*	*	*
	Stamford (Duddington)	81	46	72·4	52·3	61·7	+ 3·1	138	0	1	0·05	−0·35	*	*	*	*
	Cheadle ℌ	78	45	67·6	51·2	58·8	+ 2·8	118	0	1	0·02	−0·67	*	*	*	*
	Shirley (near Solihull)	80	43	69·6	50·7	59·5	+ 1·3	123	0	2	0·23	?	*	*	*	*
	Churchstoke ℌ	81	46	69·9	53·1	60·9	+ 4·8	132	0	1	0·01	−0·49	39·6	− 4·1	34	− 4
	Hereford ℌ												*	*	*	*
	Cirencester	80	45	70·0	52·1	60·4	+ 3·0	129	0	1	0·15	−0·37	35·0	− 9·8	30	− 8
	Oxford	82	48	71·9	53·7	62·2	+ 3·0	141	0	1	0·60	+0·12	36·1	− 8·7	31	− 8
5. ENGLAND, S.	London	90	47	74·7	54·9	64·1	+ 3·4	155	0	2	0·37	−0·08	39·2†	− 2·6†	34†	− 2†
	North Foreland	81	47	68·7	54·3	61·0	+ 3·4	133	0	1	0·04	?	*	*	*	*
	Dungeness	73	47	66·1	54·1	59·7	+ 1·1	124	0	1	0·09	−0·22	*	*	*	*
	Hastings (St. Leonards)	76	46	69·1	54·6	61·4	+ 2·9	136	0	1	0·56	+0·20	48·8	− 3·7	43	− 3
	Southampton	85	50	73·4	55·2	63·7	+ 3·8	152	0	2	0·04	−0·38	41·1	− 7·6	36	− 7
	Hurst Castle	77	51	69·9	56·1	62·5	+ 3·3	144	0	1	0·23	−0·19	*	*	*	*
	Shaftesbury ℌ	81	46	70·8	54·1	61·9	+ 4·9	139	0	1	0·67	+0·09	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	72	43	62·2	47·8	54·5	− 1·4	88	0	6	0·50	−0·25	*	*	*	*
	Glasgow	70	42	63·3	50·4	56·4	+ 0·1	101	0	5	1·00	−0·42	18·1	−20·7	15	−17
	Ardrossan	69	43	62·0	49·7	55·4	− 1·1	94	0	5	0·91	−0·41	*	*	*	*
	Glenlee ℌ	72	38	66·5	47·6	56·4	+ 0·5	101	0	3	0·77	+0·09	*	*	*	*
	Gilcrux (Cumberland)	73	45	64·4	51·8	57·7	+ 2·1	110	0	5	0·55	?	37·3	?	31	?
	Douglas Isle of Man	71	49	64·3	52·2	57·8	+ 2·0	111	0	4	0·12	−0·34	43·5	− 8·0	37	− 7
7. ENGLAND, N.W.	Stonyhurst	78	47	67·4	51·5	58·9	+ 1·8	118	0	4	0·60	−0·12	36·8	− 7·9	31	− 7
	Blackpool ℌ	80	45	69·4	51·1	59·6	+ 2·1	123	0	2	0·12	−0·33	40·5	− 4·4	34	− 4
	Manchester (Prestwich)	80	47	69·5	51·6	59·9	+ 2·9	125	0	0	—	−0·65	31·5	?	27	?
	Liverpool Obsy. (Bidston)	80	47	68·7	53·0	60·3	+ 2·2	128	0	2	0·08	−0·35	*	*	*	*
	Llandudno ℌ	72	49	66·9	54·0	60·0	+ 2·2	126	0	1	0·05	−0·35	*	*	*	*
	Holyhead	69	47	62·6	51·0	56·4	− 1·1	101	0	2	0·37	− 0·04	*	*	*	*
8. ENGLAND, S.W.	Llandovery	84	46	73·6	53·1	62·6	+ 5·0	144	0	2	0·13	−0·52	*	*	*	*
	Pembroke	70	50	62·9	54·1	58·2	+ 1·5	113	0	3	0·06	−0·34	46·2	− 8·6	40	− 8
	Clifton	81	49	70·5	56·4	63·0	+ 4·2	147	0	1	0·40	−0·07	*	*	*	*
	Arlington (N. Devon)	79	46	69·9	53·3	61·0	+ 4·6	133	0	3	0·37	−0·33	*	*	*	*
	Cullompton ℌ	80	50	72·9	54·0	62·8	+ 3·9	146	0	1	0·29	−0·33	39·7	− 6·9	35	− 6
	Falmouth	70	53	65·5	54·8	59·8	+ 1·9	125	0	2	0·04	−0·57	46·9	− 6·8	42	− 5
	Plymouth	75	52	67·6	56·2	61·5	+ 1·8	137	0	2	0·15	−0·26	38·7	− 9·4	34	− 9
	Prawle Point	76	51	65·7	54·7	59·8	+ 3·1	125	0	3	0·57	+0·23	*	*	*	*
9. IRELAND, N.	Malin Head	64	44	57·9	49·0	53·1	− 2·4	78	0	4	1·11	?	*	*	*	*
	Londonderry	71	42	65·4	49·5	56·9	− 0·4	104	0	4	1·19	+0·69	*	*	*	*
	Edenfel (Omagh)	70	40	64·0	48·7	55·8	+ 0·1	97	0	5	1·54	+0·99	*	*	*	*
	Belmullet	64	45	58·4	49·1	53·4	− 3·3	80	0	6	1·09	+0·47	*	*	*	*
	Markree Castle	70	44	65·0	50·3	57·1	+ 1·8	106	0	6	1·23	+0·56	30·3	− 9·7	26	− 8
	Armagh	71	42	66·5	50·1	57·7	+ 1·2	110	0	6	0·78	+0·18	40·5	− 1·1	34	− 1
	Donaghadee	72	45	63·1	49·1	55·6	− 0·8	95	0	6	0·55	+0·15	*	*	*	*
	Edgeworthstown	71	45	66·6	49·2	57·3	0·0	107	0	5	1·55	+1·02	*	*	*	*
10. IRELAND, S.	Dublin	74	51	67·7	54·6	60·7	+ 1·9	131	0	4	0·16	−0·19	51·7	+ 6·1	44	+ 6
	Parsonstown	74	48	67·1	52·9	59·5	+ 2·3	123	0	3	1·09	+0·61	26·1	−14·2	22	−13
	Kilkenny	72	48	68·6	52·6	60·0	+ 2·3	126	0	2	0·70	+0·18	*	*	*	*
	Roche's Point	66	49	63·1	52·7	57·5	− 1·0	109	0	2	0·17	−0·53	*	*	*	*
	Valencia	66	49	62·7	54·0	58·1	+ 0·6	113	0	5	0·91	+0·03	8·1	−39·3	7	−34
	Killarney	69	50	65·3	53·4	58·9	+ 2·1	118	0	5	1·09	?	*	*	*	*
	Foynes	?	51	?	55·4	?	?	?	?	4	3·12	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	51	64·0	54·7	59·0	+ 1·1	119	0	2	0·03	−0·36	36·6	?	32	?
	Jersey	81	53	71·6	57·1	63·9	+ 4·2	153	0	3	0·81	+0·43	61·5	+ 4·8	55	+ 4

Stations marked ℌ are in connection with the Royal Meteorological Society, and those marked ℑ with the Scottish Meteorological Society.

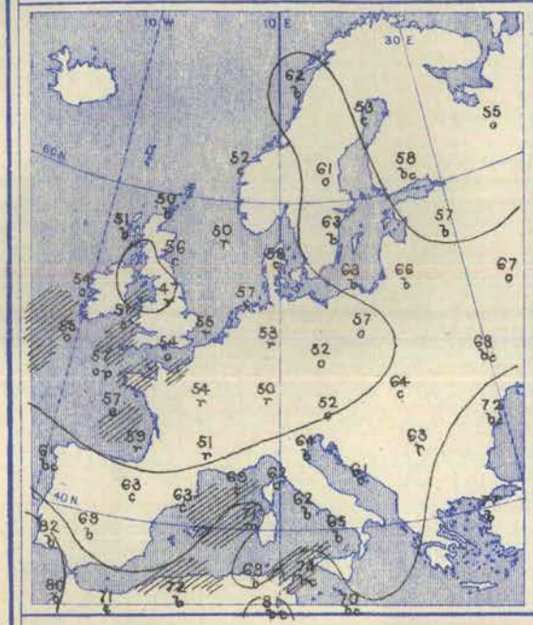
* An asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine see last page.

Sunday, 20th June.

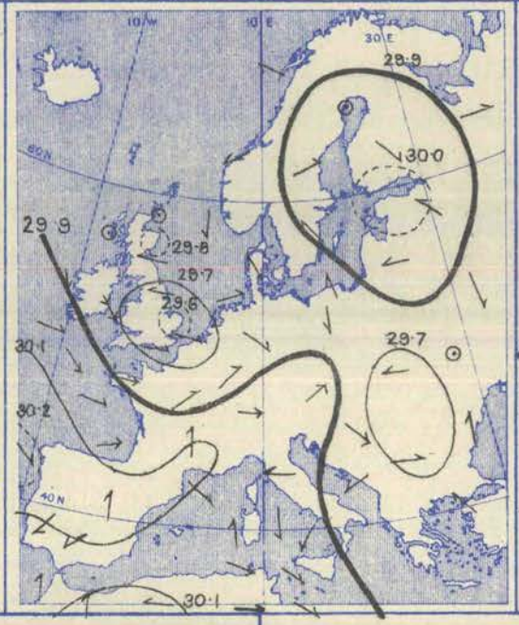
Temperature and Weather.

8 a.m.

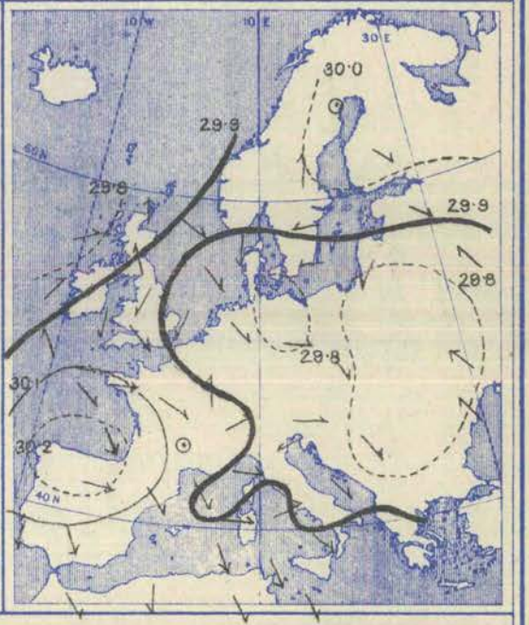


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over Scotland and many parts of northern Europe, as well as over the Iberian Peninsula, the Mediterranean, Turkey, and the Black Sea; dull and very unsettled elsewhere, with rain very generally over France, the western and southern parts of Germany and Austria-Hungary. A little rain falling later in many parts of our Islands, and considerable amounts over France, central Europe, and Italy, but general tendency inclining for finer weather than of late over the British Islands.

Temperature still low over western Europe, but showing some tendency to increase. Morning readings highest, 81° at Sfax, 76° to 70° on the Algerian coast, 77° to 72° on the shores of the Black Sea; above 60° on the shores of the Mediterranean generally, as well as at several of the Baltic stations, and at Hernösand and Bodö. Lowest, 46° at Leith, 47° at Shields, 49° at Cracow, Nairn, and Donaghadee, 50° at Malin Head and Wiesbaden, and below 60° over the British Islands, France, and Germany as a whole. Rising to very little more than 60° over our Islands later, but touching 68° at Paris, 81° at Nice, 88° at Palermo, 99° at Madrid and Lisbon, and 105° at Biskra.

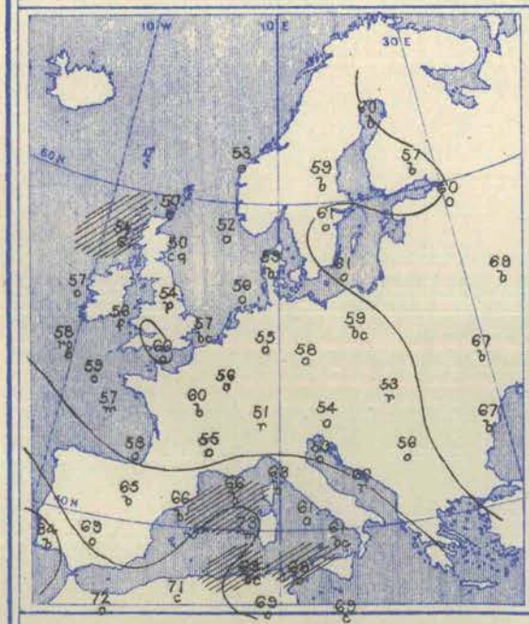
Wind very variable—light and anticyclonic over northern and south-western Europe, very variable in force, and cyclonic over the British Islands (strong to a gale in the west and south, but light in the north). Westerly and South-Westerly over France and Germany; variable and light over the Mediterranean. Falling light over our Islands later, and backing to South in Ireland.

Barometer highest, 30·2 ins. and more over the Azores and at Corunna, and exceeding 30·0 ins. (1) over Spain and the south-west of France, and (2) over the Gulf of Finland and neighbouring parts of Russia. Lowest, below 29·6 ins. in a very complex depression lying over the northern and eastern parts of England, and below 29·7 ins. in another over Hungary. Rising fast over France and England later, but falling again in Ireland.

Monday, 21st June.

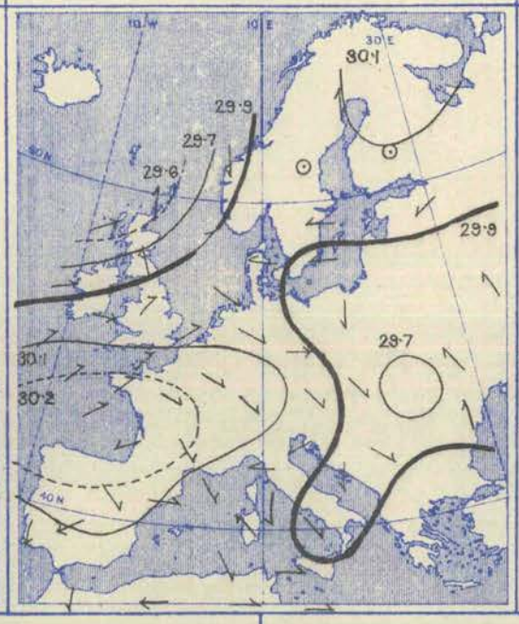
Temperature and Weather.

8 a.m.

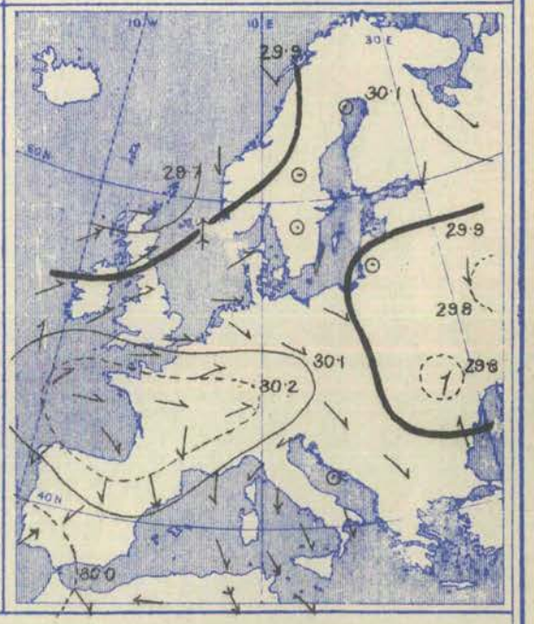


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over northern and some parts of central Europe, as well as over the north-east of Scotland; fair over France and Spain; dull over the British Islands as a whole, with rain in the extreme west and north. A little rain falling later over our south-western, western, and extreme northern districts, and at Christiansund; none over our north-eastern and south-eastern counties, but a large quantity at Munich, and a considerable fall at Riga.

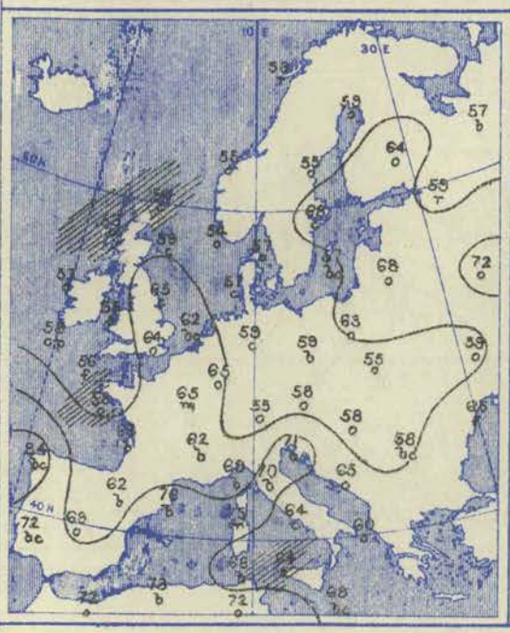
Temperature risen considerably over the British Islands and north-western Europe. Morning readings highest, 84° at Lisbon, and exceeding 60° over the south of Europe generally; 69° at Moscow, 61° at several of the stations on the shores of the Baltic and Gulf of Finland; 63° at Liverpool, and 60° both in London and at Paris. Lowest, (1) 50° to 55° over the greater part of central Europe; (2) 50° at Sumburgh Head, 52° at Skudesnaes, 53° at Christiansund, 54° at Shields. Rising later to between 74° and 70° over the major part of Great Britain, to 70° at Berlin, 73° at Paris, 79° at Nice, 81° at Perpignan, 82° at Cagliari, and 86° at Gap.

Wind (1) Southerly to Westerly over the British Islands, light to strong in force; (2) light and anticyclonic over the Bay of Biscay and France, as well as northern Europe. Blowing a moderate gale over the Hebrides later; no great change at our southern stations.

Barometer highest, (1) 30·2 ins. and more to 30·0 ins. in an anticyclone covering the Bay of Biscay, France, the north of Spain, and southern half of our Islands; (2) 30·1 ins. and more to 30·0 ins. over northern Europe. Lowest, below 29·6 ins. off our extreme north-west coasts, and below 29·7 ins. over Hungary. Rising over the United Kingdom later—slowly in the south, decidedly in the north-west.

Tuesday, 22nd June.

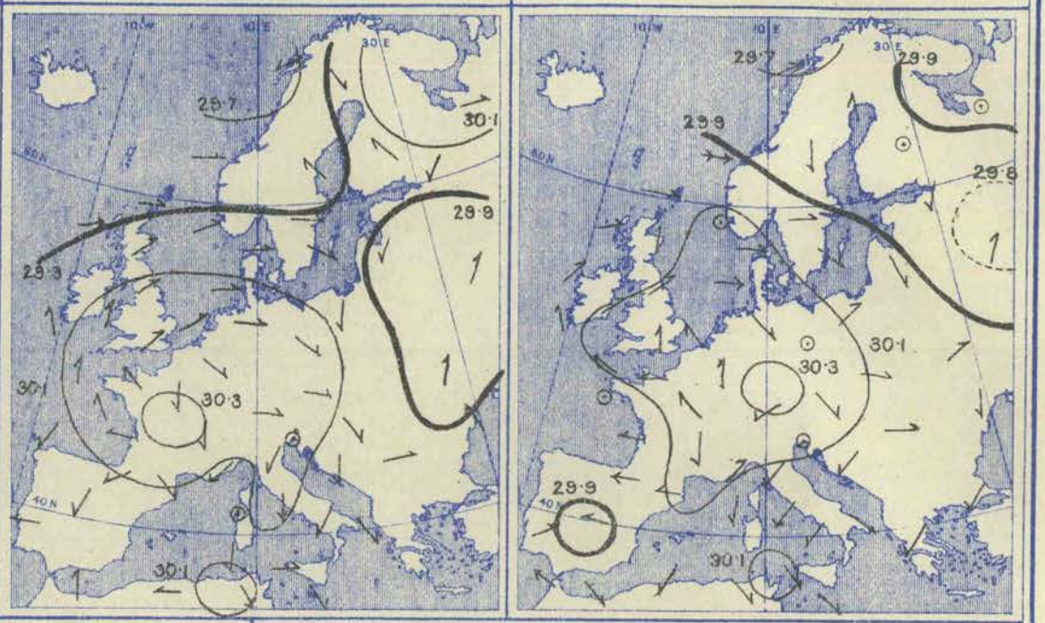
Temperature and Weather. — 8 a.m.



Weather in morning fine and bright over France; foggy in the English and Irish Channels; cloudy, but fair, over England; dull and showery at several western stations; fine in Scotland and the south of Norway. Clearing up later over the greater part of our Islands, but parhelia seen at some English stations in the evening; rain falling still later over Scotland and Ireland, and thunderstorms occurring at Parsonstown and Valencia.

Temperature in morning highest, 75° at Barcelona and Perpignan, and exceeding 70° at many stations in southern and south-eastern Europe; 72° at Moscow, 68° at Riga and Stockholm, 66° at York, 65° at Paris. Rising later to between 70° and 78° in many parts of our Islands, Germany, and France, and touching 90° at Rochefort and Biarritz, 92° at Gap, 95° at Madrid, but not touching 80° over Italy and south-eastern Europe.

Barometer and Wind. — 8 a.m. and 6 p.m.

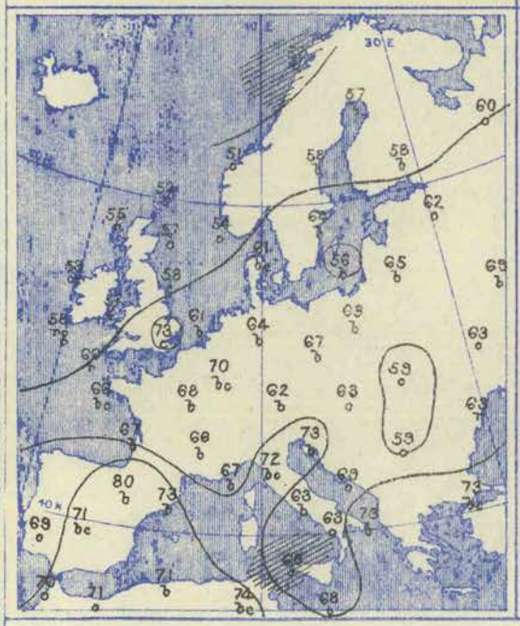


Wind light and anticyclonic over France, Spain, England, and Germany; South-Easterly to South-Westerly in Ireland, South-Westerly and Westerly in Scotland, and on the eastern parts of the North Sea, but South-Easterly over Finland; very light and variable over Russia, south-eastern Europe, and the Mediterranean. Not much change reported later, except over France and the Channel, where a moderate Easterly breeze set in.

Barometer highest, 30·3 ins. and more to 30·1 ins. in an anticyclone covering France, Germany, England, and the southern half of the North Sea, and exceeding 30·1 ins. over the White Sea and north of Russia also. Lowest, below 29·7 ins. off the north-west coast of Norway, below 29·9 ins. over central Russia, and below 30·0 ins. over Portugal. Falling decidedly over the Bay of Biscay and France later, and the change spreading northwards. Rising decidedly over Scandinavia.

Wednesday, 23rd June.

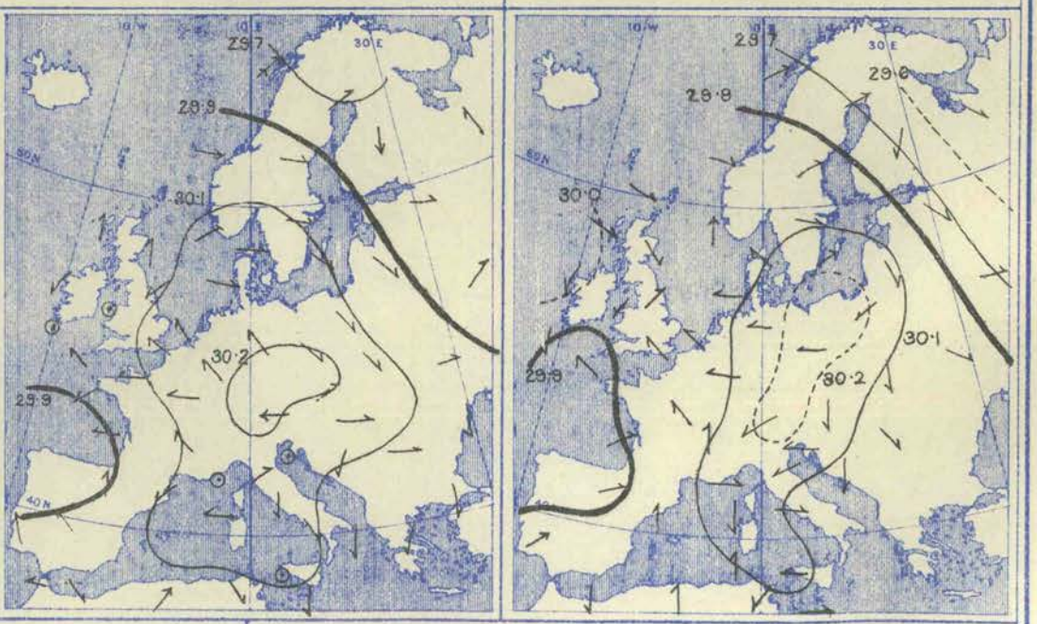
Temperature and Weather. — 8 a.m.



Weather in morning fine over nearly the whole of Europe, including the eastern, central, and southern parts of England; dull and rainy over Ireland, Scotland, and the north-western parts of Norway, as well as on the northern shores of the Black Sea. Considerable rain later in the west and north of our Islands (0·9 in. at Parsonstown), and in the north-west of Norway, and at Archangel; unsettled looking skies over England, but weather remaining fine as a whole both there and on the Continent.

Temperature risen greatly over England, less decidedly over the Continent. Morning readings highest, 74° at Tunis, and above 70° at many of the stations on the coasts of southern Europe; 73° in London, 71° at Hurst Castle, Liverpool, and Oxford; 69° at Moscow and York, 68° at Paris, 67° at Berlin. Lowest, 47° at Bodö, 52° at Sumburgh Head, 53° at Malin Head and Belmullet, 54° at Nairn. Rising later to between 80° and 85° over the greater part of England, France, and Belgium, to 93° at Berlin, to 93° at Biarritz, and 95° at Rochefort, but not touching 60° in the north of Scotland.

Barometer and Wind. — 8 a.m. and 6 p.m.



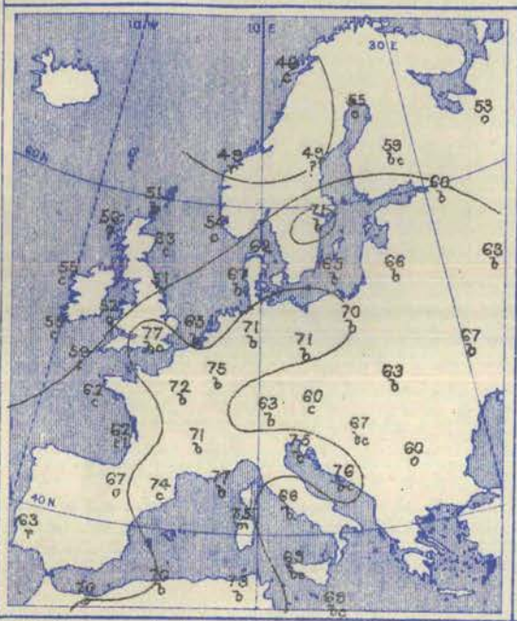
Wind light and anticyclonic over the greater part of Europe, Easterly and moderate over the Bay of Biscay and the Channel, and South-Easterly over England, but Northerly over the north-western parts of Ireland and Scotland, and South-Westerly, strong to a gale, on the north-western coasts of Norway; North-Westerly, strong to moderate, over Finland. The Northerly winds on our north-western coasts spreading Eastwards later; very little change elsewhere.

Barometer highest, 30·3 ins. and more to 30·1 ins. in an anticyclone having its central area over Germany, but covering the whole of central Europe, the North Sea, and east of England. Lowest, below 29·7 ins. in a depression over Lapland, below 29·9 ins. over the north-western parts of Spain, and below 30·0 ins. both over our own north-western coasts and over Turkey and Greece. Falling over France, England, and the North Sea later; rising over Ireland and the west of Scotland.

Thursday, 24th June.

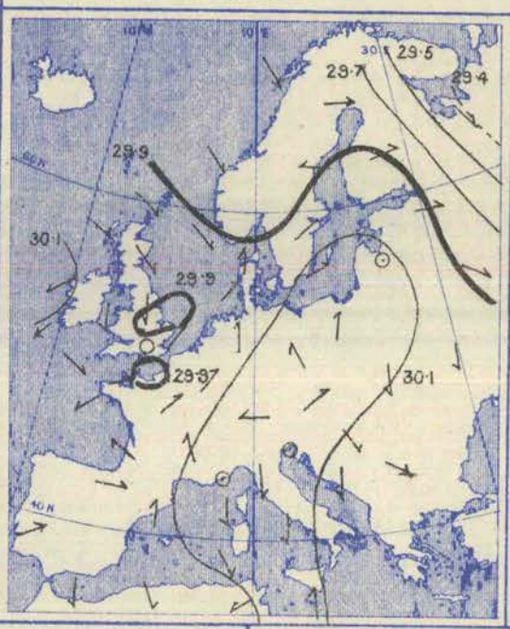
Temperature and Weather.

8 a.m.

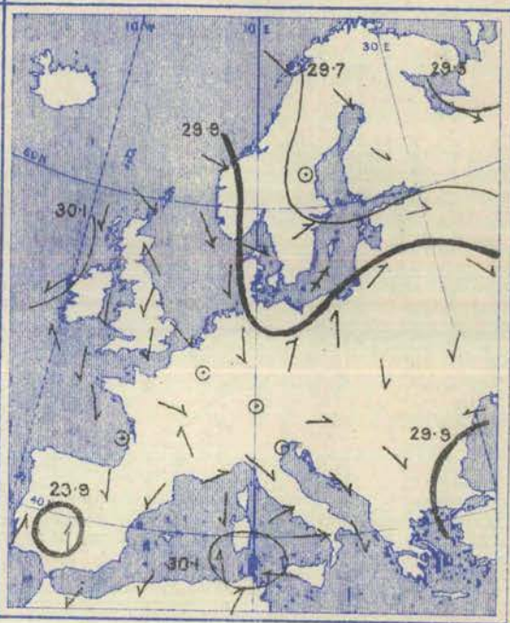


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the western, southern and central parts of Continental Europe, and the eastern parts of the British Islands; cloudy and unsettled over the north-western and northern districts; rainy at Shields, and unsettled over Scandinavia also, with rain at Christiansund. Rain falling later over Scandinavia generally, and in several parts of the British Islands, also over some parts both of Hungary and Spain. Thunderstorms, with heavy hail, occurring over our south-eastern and eastern counties, as well as at Karlstad on the one hand, and at Biarritz on the other.

Temperature very irregularly distributed. Morning readings highest, (1) 77° to 70° over many parts of the Mediterranean, but only 66° at Rome; (2) 77° in London, 72° at Loughborough, Cambridge and Paris, 71° at Berlin and at Stockholm. Lowest, 50° to 51° over the north-east of England and the south of Scotland, as well as at Sumburgh Head, 49° at Christiansund, 46° at Bodö. Changing very much and frequently over our Islands later; rising to 90° in London, 91° at Berlin, 93° at Croisette, 89° at Paris, 87° at Lyons, and 82° at Rome; falling very fast in London still later.

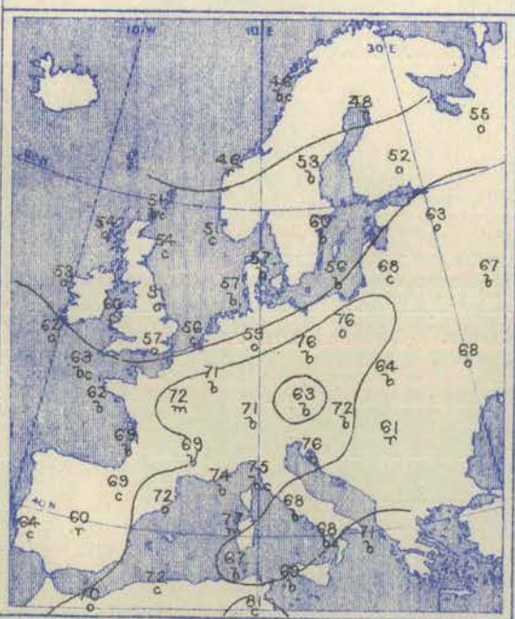
Wind (1) light and anticyclonic over central Europe and the Baltic, Southerly over Holland and Denmark; (2) North-Westerly over Scotland, North-Easterly to Northerly over Ireland and the Irish Channel; (3) light and exceedingly variable over the inland and eastern parts of England. The Northerly wind becoming much more general over the greater part of England later. Local whirlwind reported in places, and one of great severity over the northern and north-eastern suburbs of London, and in Essex.

Barometer highest, (1) 30·2 ins. and more over north Germany, and exceeding 30·0 ins. in an anticyclone stretching from the Mediterranean and south-east of Spain across central Europe to the Baltic and neighbouring parts of Russia; (2) 30·1 ins. and more to 30·0 ins. over Ireland and Scotland. Lowest, below 29·4 ins. over the north-east of Russia, and below 29·9 ins. in two shallow depressions lying over the east and south-east of England. Latter systems merging into one and moving to the Netherlands.

Friday, 25th June.

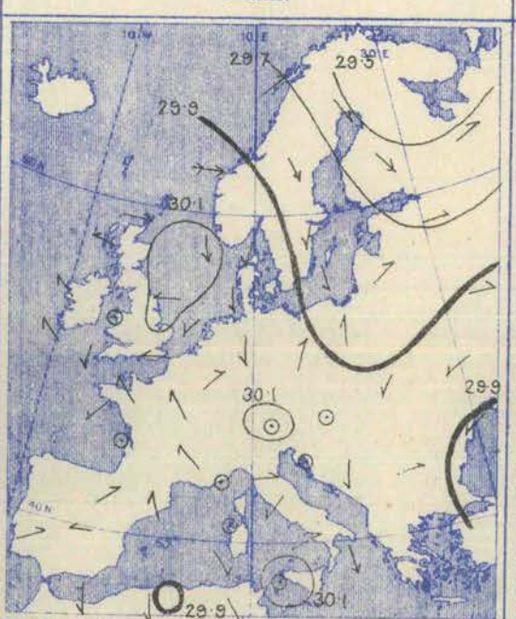
Temperature and Weather.

8 a.m.

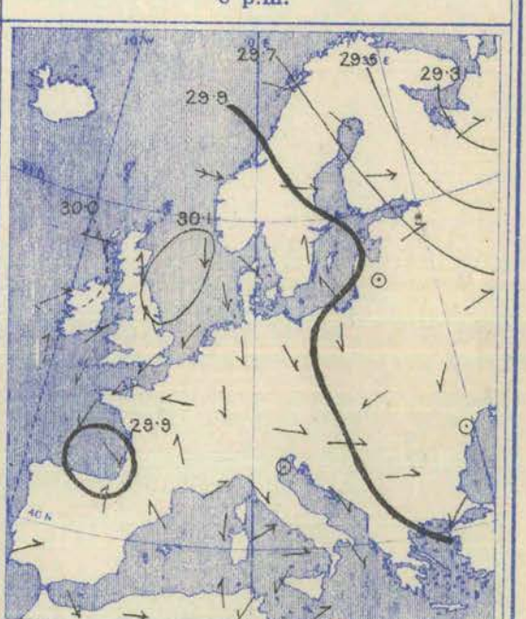


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over southern, central, and eastern Europe, as well as in many parts of Sweden and Denmark; very varied over the British Islands, with fog and mist on many parts of our western and southern coasts. Rainy over the Netherlands and in the north of Finland. Much rain and thunder later in the west of France, and showers locally in several parts of the British Islands, and very generally over Scandinavia and Finland, and in some parts of south-eastern Europe.

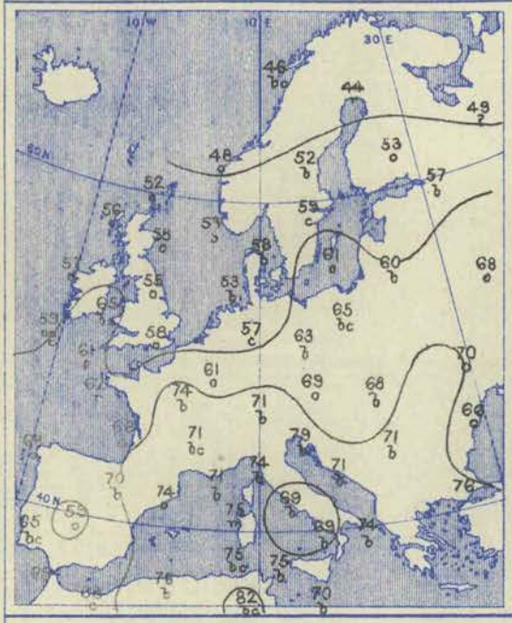
Temperature fallen rapidly over the eastern and central parts of England. Morning readings highest, 82° at Aumale, 81° at Sfax, and above 70° at many stations in south-western, southern, and south-eastern Europe; 76° at Berlin and Neufahrwasser, 72° at Paris, 67° at Moscow. Lowest, 46° in the north-west of Norway, 50° at Ulcaborg, 51° at Sumburgh Head and Shields, 53° at Malin Head, and below 60° over almost the whole of our Islands. Rising later to 70° at Parsonstown and Scilly, to 89° at Paris, 90° at Lyons, 91° at Berlin, 92° at Charleville, and 104° at Biskra, but not exceeding 65° over the greater part of the British Islands, nor 77° at Naples and Brindisi.

Wind light and anticyclonic over the United Kingdom, western and central Europe; North-Westerly and strong over northern Europe. Becoming Southerly at the Irish stations later, and variable (cyclonic) over the Bay of Biscay and west of France.

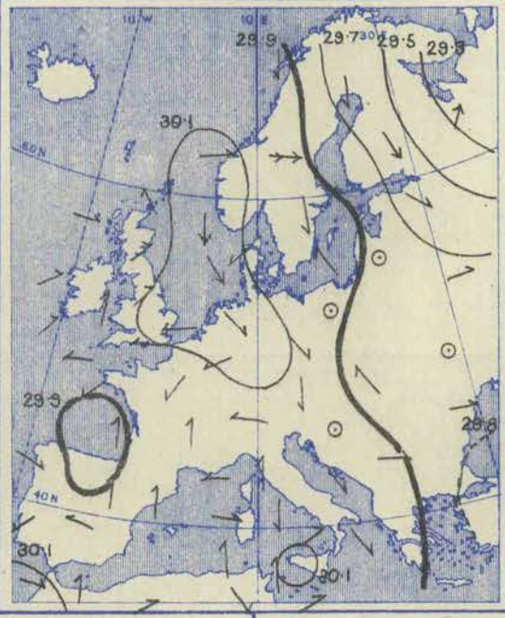
Barometer highest, 30·1 ins. and more to 30·0 ins. in a complex anticyclone covering the British Islands and the greater part of western Europe. Lowest, below 29·5 ins. in a well-marked depression over northern Europe, below 29·9 ins. in a shallow system over the Black Sea, and below 30·0 ins. in another area over the Bay of Biscay and north-west of Spain. Rising over northern Europe later, but a new shallow depression approaching the north-west of our Islands from the Atlantic.

Saturday, 26th June.

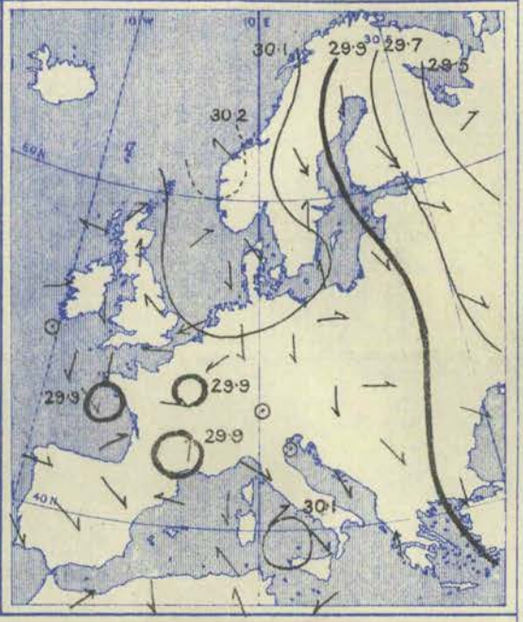
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over almost the whole of Continental Europe, and at most of the stations clear and bright; cloudy or overcast at almost all the British and Irish stations, and in the north and west of France, with thunder and rain over Brittany and the Channel Islands; rain at Roche's Point, and fog at many of our southern and western stations. Very changeable later, and thunderstorms over the Channel and the southern half of England.

Temperature in morning highest, 76° at Algiers, and exceeding 70° at many of the stations over southern and south-eastern Europe; 74° at Paris, 71° at Wiesbaden. Lowest, 44° at Ulealborg, 46° at Bodö, 49° at Archangel; 52° at Sumburgh Head, 53° at Fanö, 55° at Malin Head, Shields, and Spurn Head. Rising to between 70° and 75° over England later, and to 82° at Wiesbaden, 86° at Paris, 84° at Nice, and 89° at Lyons.

Wind (1) moderate to a gale from between North-West and West in many parts of northern Europe, but South-Westerly at Archangel; (2) light and anticyclonic over the North Sea, Ireland, England, and many parts of central and southern Europe; (3) moderate, but cyclonic, over the Bay of Biscay and west of France, and from West-South and South-East over the north-west and north of Scotland. Extremely variable over our southern districts later, and blowing strongly from North-East in the Straits of Dover.

Barometer highest, 30·1 ins. and more over the North Sea, and exceeding 30·0 ins. in an anticyclone of very irregular form, covering almost the whole of north-western and central Europe, as well as the Mediterranean and the southern half of Spain. Lowest, below 29·2 ins. over the White Sea, and below 29·7 ins. over the Kola Peninsula, Finland, and the north of Russia; below 29·9 ins. over the Bay of Biscay. Rising a little over northern Europe later, and changing little and irregularly over the British Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The changes in the distribution of pressure during this week have been very great over north-western Europe, and in those regions the weather has varied extremely. At the commencement of the week pressure was high both over south-western and northern Europe, while a depression was passing across England, the North-Westerly winds of which were causing unseasonably cold weather, while its South-Westerly winds were bringing rain to France and the north-east of Germany.

During the next day or two the south-western high-pressure system spread north-eastwards, causing very fine and warm weather over western and central Europe and the greater part of England. Wednesday and Thursday, however, found this system giving way, and on the latter day shallow disturbances appeared over England, with the result that exceedingly high temperatures (90° Fahr.) were recorded in London, and local squalls of great violence were felt over the northern suburbs and Essex.

The remainder of the week was marked by ever changeable weather, and further sharp thunderstorms over the south of England on Saturday.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 146.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	27·8	− 8·5	23	− 7	EASTBOURNE	49·7	− 0·8	44	− 1
OSWALDKIRK (Yorkshire)	33·5	− 3·7	28	− 4	VENTNOR	43·2	?	38	?
WORKSOP	37·4	+ 1·2	32	0	SOUTHPORT	41·4	?	35	?
THURCASTON (Leicestershire)	37·6	− 1·6	32	− 2	COLWYN BAY	58·3	?	50	?
MARGATE	45·8	+ 3·8	40	+ 3	NEWQUAY	36·2	−18·6	32	−17
WESTBOURNE (Sussex)	40·0*	− 8·3	35*	− 8	TORQUAY	47·6*	− 7·2	42*	− 7
BRIGHTON	40·2	−11·6	35	−10	GUERNSEY	57·5*	− 0·3	51*	0

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane,

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

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VOL. XIV. No. 26.] *Third Series.* WEEK ENDING SATURDAY, JULY 3RD, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 152.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	79	41	64·3	49·5	56·4	2 above	101	+28	0	- 1	695	+ 34	615	- 8
	1. SCOTLAND, EAST -	76	39	64·9	50·4	57·2	1 above	106	+16	0	0	824	- 7	661	+12
	2. ENGLAND, N.E. -	78	47	65·3	52·7	58·5	1 above	116	+20	0	0	913	+ 74	471	-78
	3. ENGLAND, EAST -	82	50	71·0	54·9	62·4	3 above	143	+35	0	0	1180	+142	493	-124
	4. MIDLAND COUNTIES	81	47	71·7	54·5	62·5	4 above	144	+36	0	0	1177	+ 99	504	-115
	5. ENGLAND, SOUTH -	82	53	70·4	57·0	63·2	4 above	148	+33	0	0	1302	+159	297	-180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	75	46	66·3	53·2	59·3	3 above	121	+28	0	0	913	+ 18	441	- 21
	7. ENGLAND, N.W. -	74	50	66·5	54·9	60·3	2 above	128	+26	0	0	1026	+ 81	367	- 92
	8. ENGLAND, S.W. -	79	48	69·3	55·7	62·1	3 above	141	+33	0	0	1270	+161	223	-138
	9. IRELAND, NORTH -	73	44	64·0	52·2	57·7	1 above	110	+13	0	0	964	- 22	403	+ 8
	10. IRELAND, SOUTH -	74	50	67·0	55·9	61·0	3 above	133	+28	0	0	1245	+ 91	242	- 57
	—CHANNEL ISLANDS-	73	52	66·5	57·0	61·4	2 above	136	+21	0	0	1492	+235	68	- 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 152.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	3	7	1 less	114	- 2	19·2	- 2·6	31	- 7	25	- 6	679	+61	30	+ 3
	1. SCOTLAND, EAST -	3	2	4 less	104	+11	14·5	+ 0·8	37	- 1	30	- 3	663	-35	29	- 2
	2. ENGLAND, N.E. -	3	3	2 less	98	+10	11·3	+ 0·2	28	-10	24	- 8	715	+31	32	+ 2
	3. ENGLAND, EAST -	2	1	4 less	96	+11	12·0	+ 1·0	37	- 8	32	- 7	790	- 2	35	0
	4. MIDLAND COUNTIES	3	7	1 more	94	+11	14·0	+ 1·6	35	- 3	30	- 3	750	+34	33	+ 1
	5. ENGLAND, SOUTH -	2	3	1 less	89	+ 9	14·7	+ 2·2	41	- 5	36	- 5	830	+ 2	36	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	5	5	2 less	112	+13	20·8	- 0·6	29	-10	25	- 8	713	- 23	31	- 1
	7. ENGLAND, N.W. -	3	5	0 (average)	108	+18	15·9	+ 1·9	36	-14	31	-11	768	+ 22	33	+ 1
	8. ENGLAND, S.W. -	2	3	2 less	109	+19	21·2	+ 4·7	54	+ 2	48	+ 3	851	- 25	38	- 1
	9. IRELAND, NORTH -	3	4	1 less	121	+16	20·2	+ 4·1	12	-28	10	-23	663	- 35	29	- 1
	10. IRELAND, SOUTH -	4	6	0 (average)	114	+17	21·7	+ 4·0	26	-16	22	-15	717	- 74	32	- 3
	— CHANNEL ISLANDS-	4	5	1 more	119	+22	18·3	+ 4·3	47	-10	42	- 8	875	-112	39	- 5

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather remained in a somewhat changeable condition, especially in the western and northern districts, where frequent showers were experienced. Thunderstorms occurred in many parts of England between June 27th and 30th, and thunder was heard at some stations in the south of Ireland on June 29th.

Temperature was above the mean, the excess ranging from only one or two degrees in the more northern districts to as much as 4° in the Midland counties and England S. The highest readings, which occurred at various times in the different districts, ranged from 82° in England E. and S. and 81° in the Midland counties to 74° in England N.W. and Ireland S., and to 73° in Ireland N. and the Channel Islands. The lowest readings, which also occurred on varying dates, ranged from 39° in Scotland E. and 41° in Scotland N. to 52° in the Channel Islands, and 33° in England S.

Rainfall was less than the mean in most districts, the deficit being large in Scotland E. and England E. In England N.W. and Ireland S., however, the amount was equal to the normal, while in the Midland counties and in the Channel Islands there was a slight excess.

Bright Sunshine was very deficient in Ireland, the west of Scotland, and the north-west of England, and slightly so in all other districts excepting England S.W., where a slight excess was shown. The percentage of the possible duration ranged from 48 in England S.W., 42 in the Channel Islands and 36 in England S. to 22 in Ireland S., and to only 10 in Ireland N.

Barometer and Wind.—Frequent changes were again reported in the distribution of pressure and, consequently, in the winds and weather. At the commencement of the time, when the barometer was highest over Scandinavia, our Islands were affected partly by a depression which lay off our south-west coasts, and partly by small secondary systems which advanced over England from the southward, the wind being light from the Eastward or South-Eastward. Later on the high and the low pressure systems both dispersed, and for a short time the barometer readings were very uniform, and the winds light and variable. On the 30th an anticyclone spread over our Islands from the Westward, and light Northerly breezes became general. Towards the close of the week, however, the anticyclone moved southwards, and a well-marked depression appeared off the north of Scotland, the wind backing to the westward very generally, and increasing to a moderate or fresh gale on our extreme north and north-west coasts,

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213 | 70 7 | 97 1897.

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 151 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	64	45	56·7	47·4	51·7	+ 0·3	68	0	2	0·32	− 0·15	*	*	*	*
	Stornoway	71	41	63·3	48·4	55.3	+ 2·1	93	0	3	0·25	− 0·42	33·9	− 8·5	27	− 7
	Wick	67	47	62·3	49·4	55·4	+ 1·5	94	0	3	0·13	− 0·37	*	*	*	*
	Lairg Ⓢ	79	48	67·6	49·4	57·9	+ 3·6	111	0	3	0·36	− 0·22	*	*	*	*
	Glencarron Ⓢ	75	46	66·9	49·6	57·7	+ 3·0	110	0	3	2·29	+ 1·12	*	*	*	*
	Fort Augustus Ⓢ	70	48	66·2	50·9	58·0	+ 1·7	112	0	4	0·39	− 0·25	29·7	− 0·3	24	(
	Fort William Ⓢ	77	44	67·3	51·7	59·0	+ 2·9	119	0	4	0·92	− 0·10	29·7	−11·3	24	−11
1. SCOTLAND, E.	Nairn	70	44	65·7	49·1	56·8	+ 0·6	104	0	3	0·07	− 0·35	*	*	*	*
	Aberdeen	71	46	63·7	50·7	56·8	+ 1·1	104	0	3	0·16	− 0·26	53·6	+ 9·1	44	+ 8
	Braemar Ⓢ	74	39	66·4	48·6	56·9	+ 3·0	104	0	4	0·33	− 0·35	38·5†	− 2·3†	32†	− 1†
	Ochtertyre Ⓢ	76	47	68·0	52·3	59·9	+ 2·6	125	0	3	0·11	− 0·49	*	*	*	*
	Leith	72	51	62·7	52·1	57·0	− 0·4	105	0	2	0·17	− 0·28	*	*	*	*
	Marchmont Ⓢ	72	47	63·0	49·6	55·8	0·0	97	0	3	0·15	− 0·45	28·3	−12·8	24	−10
2. ENGLAND, N.E.	Alnwick Castle	68	48	62·6	51·6	56·7	+ 0·8	103	0	3	0·40	− 0·05	*	*	*	*
	Durham	74	47	68·6	51·6	59·5	+ 2·0	123	0	4	0·25	− 0·22	31·3	− 6·7	26	− 6
	Shields	72	49	60·0	51·4	55·4	− 1·1	94	0	4	0·19	− 0·27	*	*	*	*
	Scarborough Ⓜ	74	49	65·1	51·4	57·8	+ 0·1	111	0	3	0·53	+ 0·05	*	*	*	*
	York	78	48	71·6	54·6	62·5	+ 3·9	144	0	3	0·24	− 0·30	32·2	− 6·4	28	− 4
	Spurn Head	70	53	63·9	55·3	59·3	+ 1·2	121	0	3	0·05	− 0·31	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	78	52	72·4	55·2	63·2	+ 4·0	148	0	3	0·16	− 0·38	32·7	−10·8	28	− 9
	Yarmouth	70	54	65·6	56·1	60·5	+ 1·8	130	0	3	0·06	− 0·41	*	*	*	*
	Geldeston	79	51	72·2	54·8	62·9	+ 4·1	146	0	2	0·12	− 0·32	48·3	+ 1·1	42	+ 1
	Cambridge	82	50	73·7	54·9	63·7	+ 3·5	152	0	2	0·07	− 0·45	35·4	− 8·6	31	− 7
	Rothamsted	77	50	71·0	53·6	61·7	+ 2·5	138	0	2	0·17	− 0·36	32·6	− 9·1	28	−10
4. MIDLAND COUNTIES	Harrogate	74	47	68·1	53·6	60·4	+ 2·7	129	0	5	1·52	?	24·1	?	21	?
	Bawtry (Hesley Hall)	77	47	73·1	55·1	63·6	+ 4·5	151	0	5	1·74	+ 1·21	*	*	*	*
	Loughborough	81	51	73·9	56·0	64·3	+ 4·0	156	0	2	0·26	− 0·24	*	*	*	*
	Stamford (Duddington)	80	51	73·0	55·0	63·4	+ 3·8	150	0	2	0·11	− 0·31	*	*	*	*
	Cheadle Ⓜ	74	50	68·8	54·5	61·2	+ 4·8	134	0	4	0·90	+ 0·20	*	*	*	*
	Shirley (near Solihull)	75	50	70·9	54·0	61·9	+ 3·0	139	0	3	0·86	?	*	*	*	*
	Churchstoke Ⓜ	76	49	71·8	52·7	61·6	+ 4·5	137	0	2	0·08	− 0·42	47·5	+ 5·0	41	+ 4
	Hereford Ⓜ	79	50	75·3	54·2	64·0	+ 7·6	154	0	2	0·13	− 0·32	*	*	*	*
	Cirencester	76	47	70·9	54·1	61·9	+ 3·7	139	0	2	0·72	+ 0·16	41·7	− 1·8	36	− 1
	Oxford	78	52	71·3	55·7	63·0	+ 3·1	147	0	2	0·31	− 0·19	34·5	− 8·8	30	− 8
5. ENGLAND, S.	London	78	53	73·6	57·4	64·9	+ 3·4	160	0	3	0·28	− 0·20	35·2†	− 5·0†	31†	− 4†
	North Foreland	73	54	69·0	56·3	62·2	+ 3·6	141	0	2	0·07	?	*	*	*	*
	Dungeness	73	53	68·1	57·3	62·3	+ 2·8	142	0	1	0·04	− 0·30	*	*	*	*
	Hastings (St. Leonards)	76	57	70·5	58·0	63·8	+ 4·4	153	0	1	0·13	− 0·25	?	?	?	?
	Southampton	82	54	72·9	57·4	64·6	+ 3·8	158	0	2	0·42	− 0·03	41·0	− 6·7	36	− 6
	Hurst Castle	78	55	69·7	57·7	63·3	+ 3·4	149	0	2	1·05	+ 0·60	*	*	*	*
	Shaftesbury Ⓜ	72	53	68·8	55·0	61·4	+ 3·7	136	0	3	0·32	− 0·30	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	72	47	67·2	51·8	59·0	+ 2·3	119	0	4	0·42	− 0·68	*	*	*	*
	Glasgow	72	51	65·5	53·5	59·1	+ 2·4	120	0	4	0·19	− 0·40	30·6	− 7·6	26	− 5
	Ardrossan	74	50	65·4	53·0	58·8	+ 1·7	118	0	5	0·34	− 0·16	*	*	*	*
	Glenlee Ⓢ	72	51	66·9	53·7	59·8	+ 3·3	125	0	5	0·16	− 0·54	*	*	*	*
	Gilcrux	75	51	67·3	54·5	60·5	+ 4·2	130	0	6	1·30	?	18·9	?	16	?
	Douglas (Isle of Man)	70	46	65·4	52·7	58·6	+ 2·1	116	0	3	0·29	− 0·19	37·1	−13·5	32	−11
7. ENGLAND, N.W.	Stonyhurst	72	50	65·7	55·2	60·1	+ 2·3	127	0	4	0·47	− 0·28	23·7	−19·8	20	−17
	Blackpool Ⓜ	74	51	67·5	54·4	60·5	+ 2·1	130	0	3	0·70	+ 0·23	37·0	− 7·0	32	− 5
	Manchester (Prestwich)	74	50	68·1	54·9	61·0	+ 3·5	133	0	5	1·13	+ 0·46	28·9	?	25	?
	Liverpool Obsy. (Bidston)	74	53	66·4	55·4	60·5	+ 1·6	130	0	3	0·46	0·00	*	*	*	*
	Llandudno Ⓜ	71	53	67·0	55·6	60·9	+ 2·4	132	0	3	0·27	− 0·15	*	*	*	*
	Holyhead	69	50	64·4	53·7	58·7	+ 0·6	117	0	2	0·20	− 0·20	*	*	*	*
8. ENGLAND, S.W.	Llandovey	79	48	74·1	54·1	63·4	+ 5·1	150	0	2	0·13	− 0·56	*	*	*	*
	Pembroke	69	55	65·4	56·7	60·8	+ 3·3	132	0	2	0·95	+ 0·55	64·4	+ 9·7	56	+10
	Clifton	77	55	70·1	57·6	63·4	+ 4·0	150	0	2	0·57	+ 0·09	*	*	*	*
	Arlington (N. Devon)	71	50	68·4	53·9	60·7	+ 3·3	131	0	2	0·47	− 0·30	*	*	*	*
	Cullompton Ⓜ	78	49	72·0	54·4	62·6	+ 3·0	144	0	2	0·26	− 0·42	46·2	+ 0·6	41	+ 1
	Falmouth	74	56	66·6	56·8	61·4	+ 2·7	136	0	2	0·04	− 0·61	56·7	+ 3·7	50	+ 5
	Plymouth	77	54	70·2	56·0	62·6	+ 2·2	144	0	2	0·08	− 0 36	58·3	+11·1	52	+10
	Prawle Point	78	54	67·9	56·0	61·5	+ 3·8	137	0	1	0·16	− 0·19	*	*	*	*
9. IRELAND, N.	Malin Head	63	50	59·1	51·3	54·9	− 1·1	90	0	4	0·18	?	*	*	*	*
	Londonderry	71	46	66·0	52·0	58·5	+ 0·7	116	0	4	0·24	− 0·26	*	*	*	*
	Edenfel (Omagh)	68	45	64·1	51·7	57·5	+ 1·2	109	0	4	0·73	+ 0·16	*	*	*	*
	Belmullet	68	51	62·1	53·7	57·6	+ 0·1	109	0	1	0·50	− 0·14	*	*	*	*
	Markree Castle	72	48	64·5	53·0	58·4	+ 2·6	115	0	3	0·57	− 0·13	10·6	−27·6	9	−23
	Armagh	69	44	64·6	51·9	57·8	+ 0·7	111	0	5	0·48	− 0·16	12·8	−27·6	11	−23
	Donaghadee	73	45	62·9	50·7	56·4	− 0·5	101	0	2	0·09	− 0·32	*	*	*	*
	Edgeworthstown	70	47	68·5	53·0	60·2	+ 2·7	127	0	3	0·75	+ 0·22	*	*	*	*
10. IRELAND, S.	Dublin	72	52	67·9	55·3	60·7	+ 1·2	131	0	3	0·63	+ 0·25	35·3	− 8·7	30	− 7
	Parsonstown	72	51	67·7	56·0	61·4	+ 3·7	136	0	4	0·76	+ 0·31	25·0	−13·3	22	−12
	Kilkenny	74	50	67·9	55·7	61·4	+ 3·1	136	0	3	0·95	+ 0·42	*	*	*	*
	Roche's Point	69	54	65·9	56·1	60·7	+ 1·6	131	0	2	0·20	− 0·48	*	*	*	*
	Valencia	74	53	65·7	55·6	60·3	+ 2·2	128	0	5	0·40	− 0·52	17·9	−27·1	15	−24
	Killarney	70	54	66·7	56·6	61·3	+ 3·8	135	0	4	0·82	?	*	*	*	*
	Foynes	?	54	?	56·4	?	?	?	?	4	0·45	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	55	65·0	56·9	60·7	+ 2·0	131	0	4	0·31	− 0·09	50·1	?	44	?
	Jersey	73	52	67·9	57·0	62·1	+ 1·5	141	0	3	0·59	+ 0·21	36·4	−18·6	33	−16

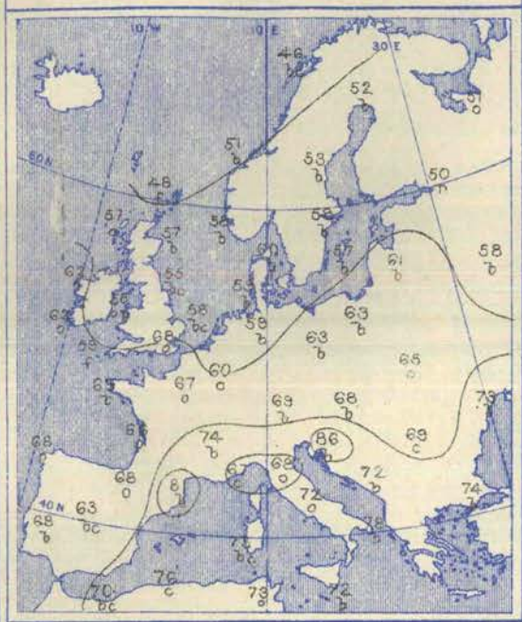
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

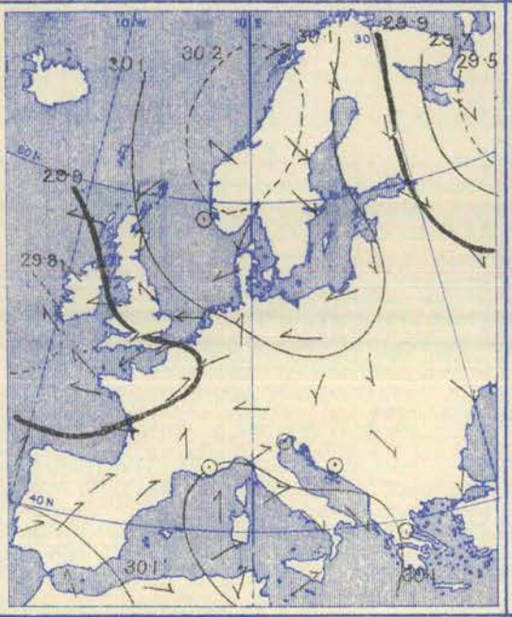
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 27th June.

Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.

Weather in morning cloudy or dull over the greater part of our Islands, France, and the Netherlands, with rain at some of the English and Irish stations. Fine and bright in nearly all other parts of Europe, but dull over northern Italy. Rain falling later at many of our own stations, and also over the neighbouring parts of the Continent—heavily in places. Thunder occurring at Paris, and lightning seen at night in the south-east of England.

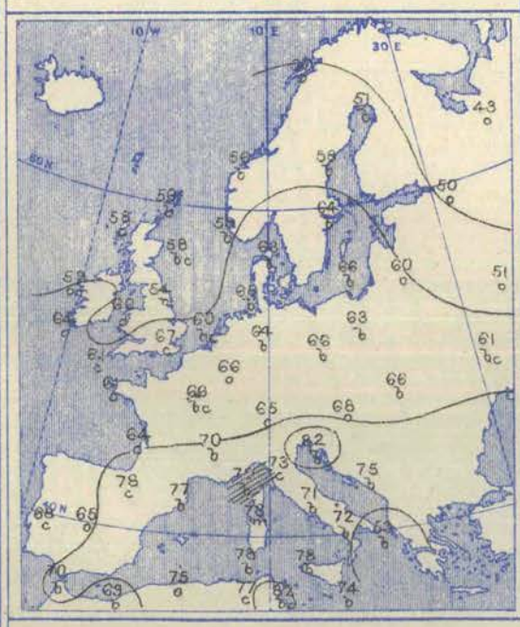
Temperature risen in most countries, but fallen in France and Germany, as well as in central Russia. Morning readings highest, 86° at Trieste, 81° at Barcelona, and 80° at Athens; above 70° in many parts of southern Europe. Lowest, 46° at Bodö, 48° at Sumburgh Head, 51° at Christiansund, and 52° at Haparanda. Rising during day to 70° and upwards in the west of Scotland, and at some stations in the south of England. Exceeding 80° over the southern parts of the Continent as a whole, and reaching 95° at Cagliari.

Wind light to moderate from the South-Eastward in the west and north of our Islands, and from the Eastward or North-Eastward over the east and south of England and the neighbouring parts of the Continent. Variable in Norway; Northerly or North-Westerly over Sweden and Russia; calm or variable over Austria, Italy, and the south of France; South-Westerly over the Spanish Peninsula and the south-west of France. No important change occurring over western Europe during day.

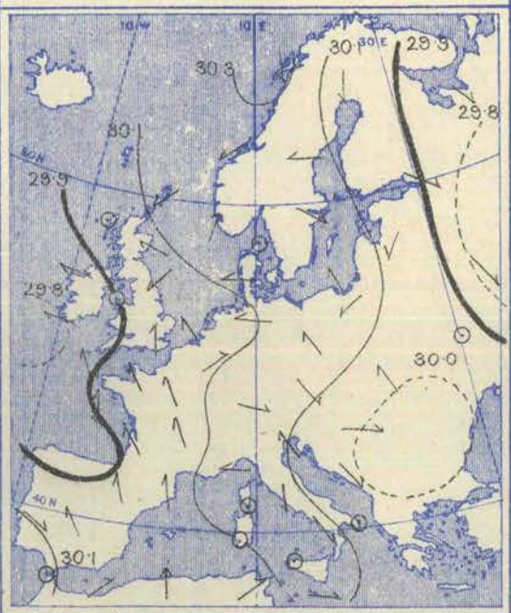
Barometer highest, 30·2 ins. and upwards over Norway, and also over the Baltic; 30·1 ins. and upwards in an anticyclone covering the whole of Scandinavia, Denmark, the Baltic, north Germany, and the North Sea, and also in another system over Italy and the neighbouring parts of the Mediterranean. Lowest, 29·4 ins. and less in a depression over northern Russia; 29·8 ins. and less in a shallow system off the south-west of Ireland. Russian depression subsequently moving eastwards; new and very shallow disturbance forming over the north-east of Spain and the extreme south-west of France.

Monday, 28th June.

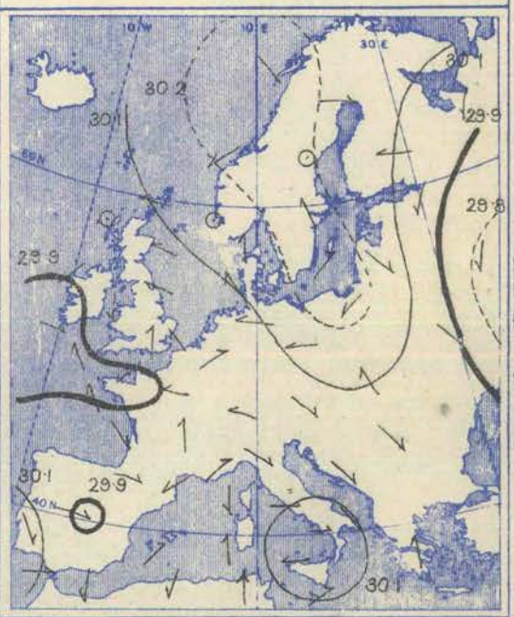
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands, with rain at several of the northern stations. Fine in the east of England, and also over the Continent as a whole, but cloudy over Spain and the west of France, with rain at Lorient. Rain falling later in many parts of our Islands and France—heavily at some of our southern stations. Thunder and lightning occurring in many of the English districts, and also in the west of France.

Temperature fallen at many of our own western and northern stations, and also in France, risen in most other parts of Europe. Morning readings highest, 84° at Aumale, 83° at Brindisi, and 82° at Trieste; above 75° at several of the southern stations, and above 65° over the more central parts of Europe generally. Lowest, 43° at Archangel, 50° at Bodö, and 51° at Haparanda and St. Petersburg; below 55° at some of our own northern stations. Rising during day to 80° or more in some of the inland parts of England; exceeding 85° in many parts of France and southern Europe, and reaching 97° at Gap.

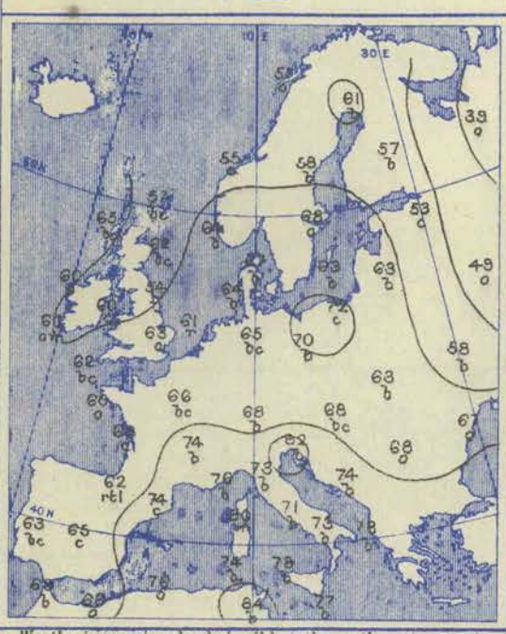
Wind light to moderate from the Eastward or South-Eastward over western Europe generally, but North-Easterly in the north of England and the south of Scotland. Northerly or North-Westerly over Russia, and also over Italy and the Adriatic; Westerly in Austria; variable at the Mediterranean stations. Subsequently becoming very variable in Ireland; veering to the Westward in the west of France.

Barometer highest, 30·2 ins. and upwards in a large anticyclone lying over Scandinavia and the Baltic; 30·1 ins. and upwards in another system lying to the southward of the Spanish Peninsula. Lowest, 29·8 ins. and less in a shallow depression off the south of Ireland, and also in a large area over central Russia. Small secondary disturbance forming later over France and the Bay of Biscay, and spreading northwards to our own southern districts.

Tuesday, 29th June.

Temperature and Weather.

8 a.m.

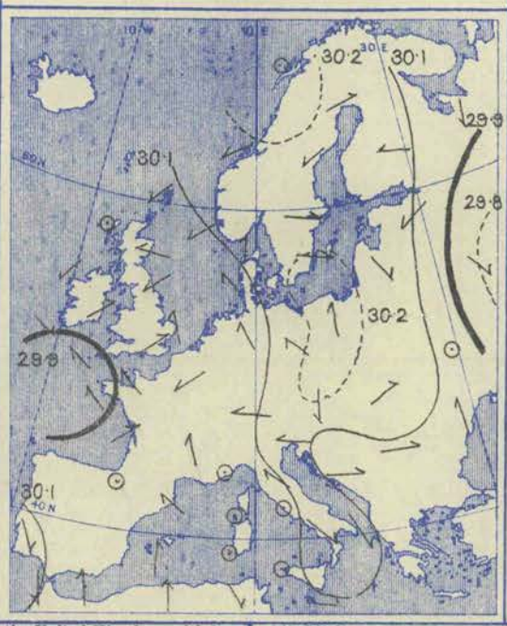


Weather in morning cloudy in all but the south-western parts of the United Kingdom, with fog or mist at many of our northern stations, and rain in the north and east of England, as well as at Parsonstown. Fine in most of the Continental countries, but cloudy in the western parts of France, with rain at Limoges and a thunderstorm at Biarritz. Showers falling later in several parts of England and Ireland, and also in the north of France, and heavy rain at Wiesbaden and the Helder. Thunder reported at Cambridge and lightning at Lyons.

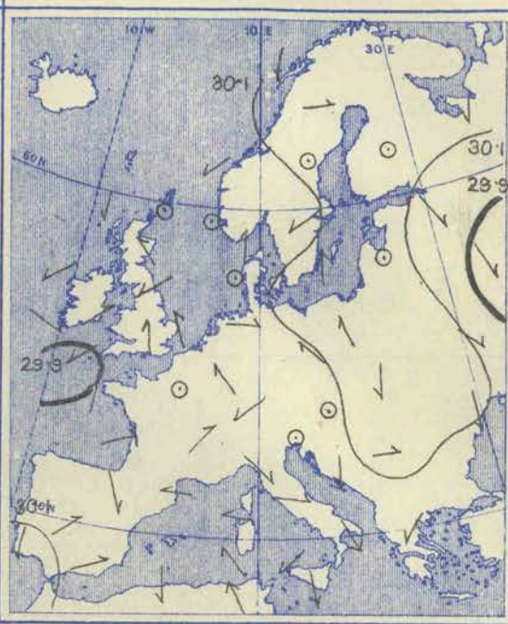
Temperature risen over the northern parts of our Islands and the Continent, and also over Germany and central France, but fallen elsewhere. Morning readings highest, 84° at Sfax and Aumale, 82° at Trieste and La Calle, and 81° at Palma; above 70° in Italy and the south and east of France. Lowest, (1) 39° at Archangel, 49° at Moscow, and 51° at Bodö; (2) 53° at Wick and Donaghadee, and 54° at Leith and Shields. Rising during day to 70° and upwards in the central and south-eastern parts of England and also in the Hebrides, and to 77° at Loughborough. Exceeding 85° in several parts of France and southern Europe, and reaching 97° at Florence.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light from the Eastward or South-Eastward in the north and east of our Islands, as well as in Norway, Denmark, and Germany; South-Westerly over the south-east of England and the west of France; Easterly or South-Easterly over the western parts of the English Channel; Northerly or North-Westerly in Ireland. Westerly or South-Westerly in the south of Sweden; Northerly or North-Westerly in Russia, and also in Italy, but variable in Austria; Easterly in the south of France; varying between West and North over the Spanish Peninsula. Subsequently becoming very variable in Ireland, and also in the west of France.

Barometer highest, 30·2 ins. and upwards in two areas, one lying over the northern parts of Norway, and the other over the eastern parts of Germany and the Baltic; 30·1 ins. and upwards in an anticyclone embracing the whole of northern and central Europe, and extending southwards over Italy, as well as in another system off the Portuguese coasts. Lowest, 29·8 ins. and less in a depression over central Russia; 29·9 ins. and less in a shallow disturbance off our own extreme south-west coasts. Distribution of pressure over western Europe subsequently becoming very irregular.

Wednesday, 30th June.

Temperature and Weather.

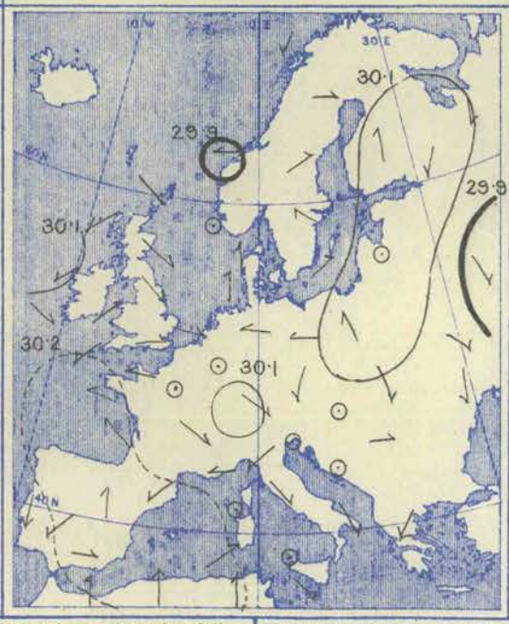
8 a.m.

Weather in morning fair or fine over the greater part of our Islands and the Continent, but dull at several of our own northern and central stations, as well as in the north of Scandinavia. Fog reported on our north-eastern and north-western coasts, and rain at Shields and Jersey, as well as in the south of France; thunderstorm in progress at Münster. Showers experienced during day in several isolated parts of the United Kingdom. Thunderstorms occurring in the south-east of England, and also in the south of France; heavy rain falling at Clermont and Nancy.

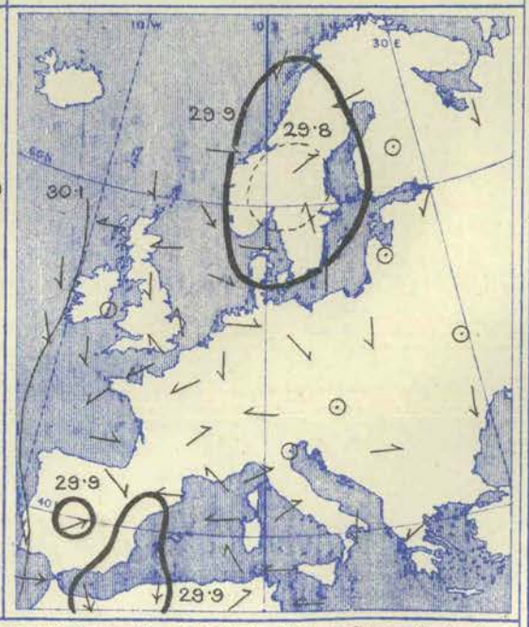
Temperature risen in most places. Morning readings highest, 88° at Aumale, 87° at La Calle and Sfax, and 83° at Trieste; above 75° in many parts of southern Europe; above 70° in north Germany, and just touching that point in London. Lowest, (1) 41° at Archangel, and and 49° at Moscow; (2) 51° at Sumburgh Head, and 52° at Bodö and Wick. Rising during day to between 75° and 80° at many of the English stations, and reaching 82° at Cambridge. Exceeding 85° over Germany, Italy, and the east and south of France; reaching 99° at Gap, and 100° at Florence.

Barometer and Wind.

8 a.m.



6 p.m.

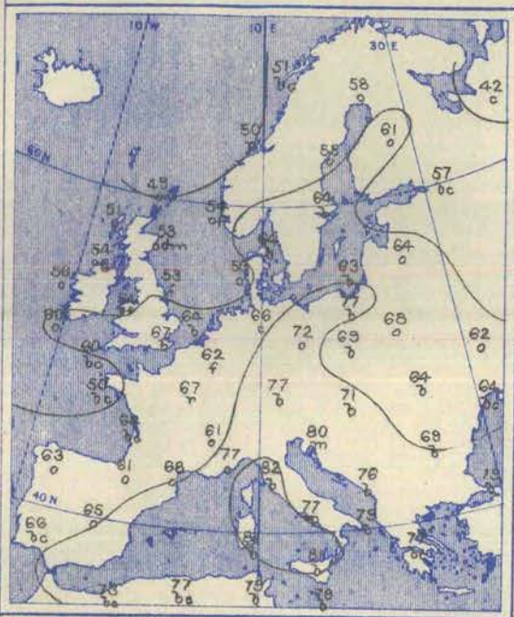


Wind light generally, and varying greatly in direction. Chiefly South-Westerly over England, but North-Westerly or Northerly in Ireland and Scotland; South-Easterly in Germany and Denmark, and Southerly or South-Westerly over Sweden and Finland. Cyclonic circulations of light winds appearing later over England and France. North-Westerly breezes setting in on eastern shores of North Sea.

Barometer highest, 30·1 ins. and upwards in an anticyclone over eastern Germany and the north-western parts of Russia, and also in another system off the west of Ireland. Lowest, 29·8 ins. and less in a depression over central Russia; 29·9 ins. and less in a shallow system off the west of Norway. Shallow depressions appearing later over England and France, and a more important disturbance over Sweden.

Thursday, 1st July.

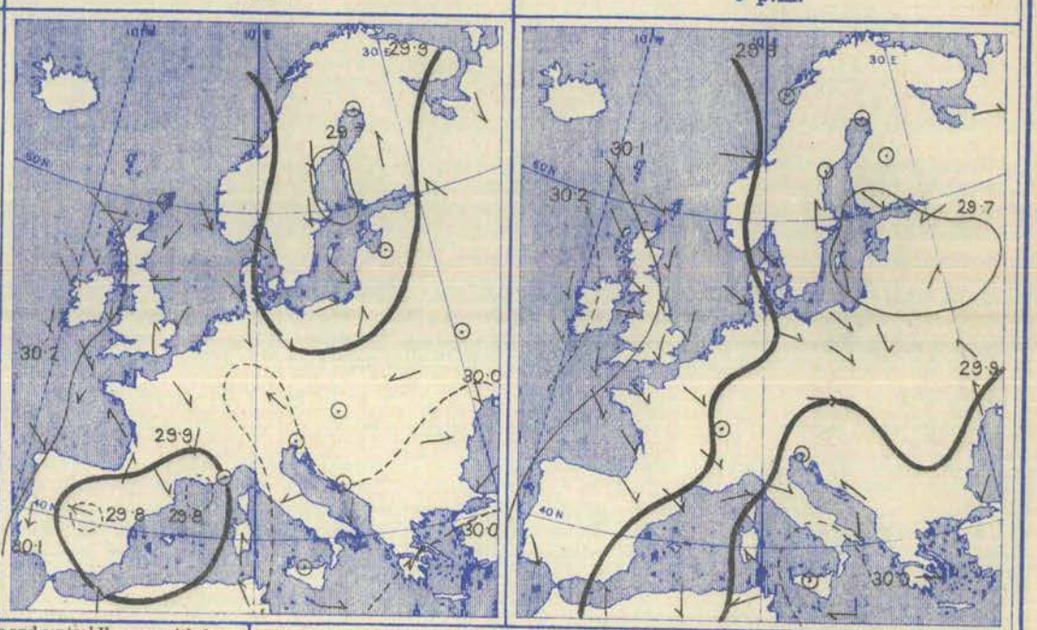
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over the greater part of western and central Europe, with fog or mist on our own north-east and north-west coasts, as well as at Skudesnaes and Brussels; rain falling at Paris and Wiesbaden, and also at Christiansund. Fine in the south of England, as well as over Denmark, the south of Sweden, and many parts of southern and south-eastern Europe. Sky clearing later in many parts of the United Kingdom, but rain falling at several of the French and German stations, with thunderstorms at Clermont and Servance, and lightning at Lyons and Perpignan.

Temperature fallen over western and northern Europe generally, but risen elsewhere. Morning readings highest, 93° at La Calle, 90° at Aumale, 86° at Sfax, and 82° at Leghorn and Sanguinaire; above 75° in many parts of Italy, Austria, and the south of France. Lowest, (1) 42° at Archangel; (2) 49° at Sumburgh Head, 50° at Christiansund, and 51° at Bodö. Rising during day to between 70° and 75° at many of the English stations, and to 78° in London, and at Prawle Point and Hurst Castle. Exceeding 85° in many parts of central and southern Europe, and reaching 102° at Florence.

Barometer and Wind. 8 a.m. and 6 p.m.

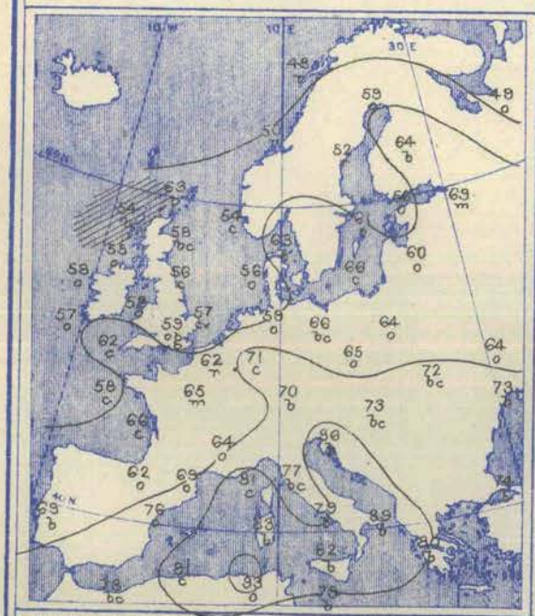


Wind moderate from the Northward or North-Westward in the west of our Islands, but light from the North-Eastward on our east and south-east coasts. Northerly or North-Westerly over Scandinavia, Denmark, and north Germany, but South-Westerly over the Baltic Provinces, and Southerly or South-Easterly in Finland. Northerly in the south of Russia; calm in Austria. Variable in Italy and the south of France. Light from the Southward or South-Eastward in the west of France, fresh to strong from the Northward on the Portuguese coasts. No important change occurring in our Islands during day, but North-Westerly winds setting in over the west of France.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying off the west of Ireland. Lowest, 29·7 ins. and less in a depression over the southern part of the Gulf of Bothnia; 29·8 ins. and less in two other disturbances—one lying off the south of France, and the other over central Spain. Anticyclone in west subsequently spreading eastwards; depression over Gulf of Bothnia moving south-eastwards; disturbances over Spain and the Mediterranean filling up.

Friday, 2nd July.

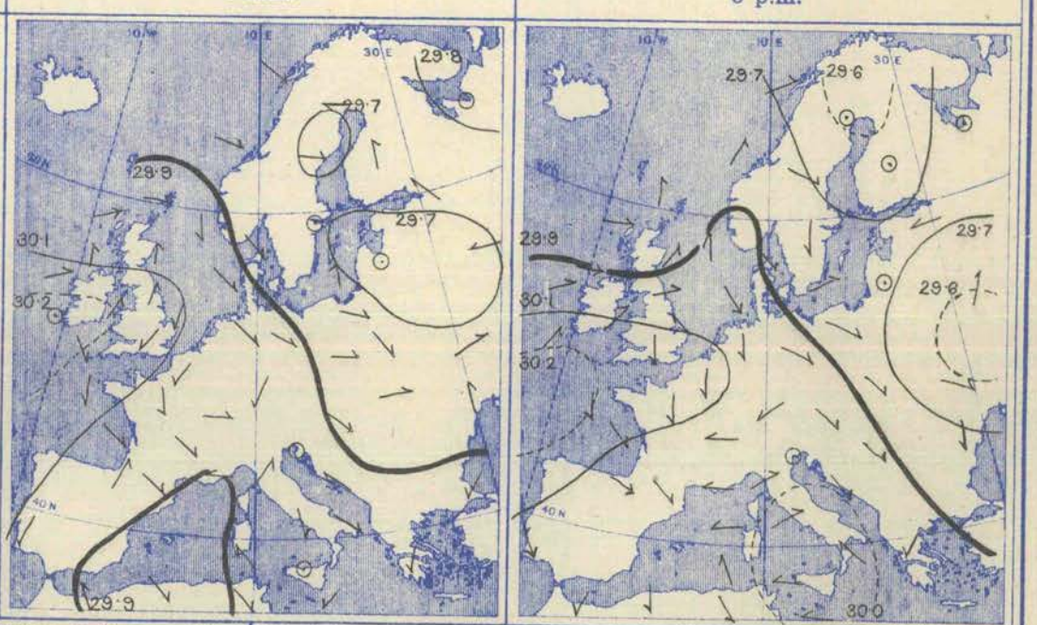
Temperature and Weather. 8 a.m.



Weather in morning fair over Europe as a whole, but with a good deal of cloud in many of the western and northern countries; rain falling in the west of Norway, and also at Hernösand and Brussels. Slight rain occurring later at several of our own western and extreme northern stations, and larger quantities in Scandinavia. Thunderstorms and heavy rain occurring over the central and southern parts of France—as much as 1·2 ins. at Clermont.

Temperature risen in the north of our Islands, and also over Russia and southern Europe generally, but fallen elsewhere. Morning readings highest, 93° at La Calle, 89° at Brindisi, and 86° at Trieste and Sfax; above 80° at many of the Mediterranean and Adriatic stations. Lowest, 48° at Bodö, 49° at Archangel, 50° at Christiansund, 52° at Hernösand, and 53° at Sumburgh Head. Rising during day to 70° or a little above it at several of our own northern stations, but not exceeding 65° in the south-east of England. Reaching 80° or more in many parts of central and southern Europe, and 90° or more in Italy, the highest reading of all being 102° at Florence.

Barometer and Wind. 8 a.m. and 6 p.m.

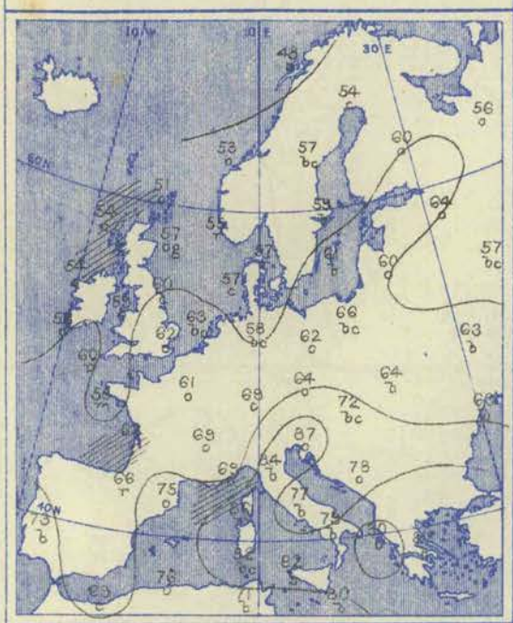


Wind light to moderate from between South and West on our own northern coasts, but from the Northward over the south of our Islands, and the neighbouring parts of the Continent. Moderate from the North-Westward over Norway, Denmark and Germany; light from the Eastward or South-Eastward over the northern and central parts of Russia. Variable over Austria, Italy, and the south of France. Wind subsequently increasing in force in the west of Scotland, and blowing a moderate to fresh gale in places.

Barometer highest, 30·2 ins. and upwards over the South of Ireland and the St. George's Channel; 30·1 ins. and upwards in an anticyclone extending from the Atlantic over the whole of Ireland and England and the extreme north-west parts of France and Spain. Lowest, 29·7 ins. and less in two depressions—one lying over the Gulf of Bothnia and the other over the western and central parts of Russia; 29·9 ins. and less in a complex disturbance over the western parts of the Mediterrannean. New depression appearing later off the north of Scotland, and barometer falling rather briskly on our own northern coasts.

Saturday, 3rd July.

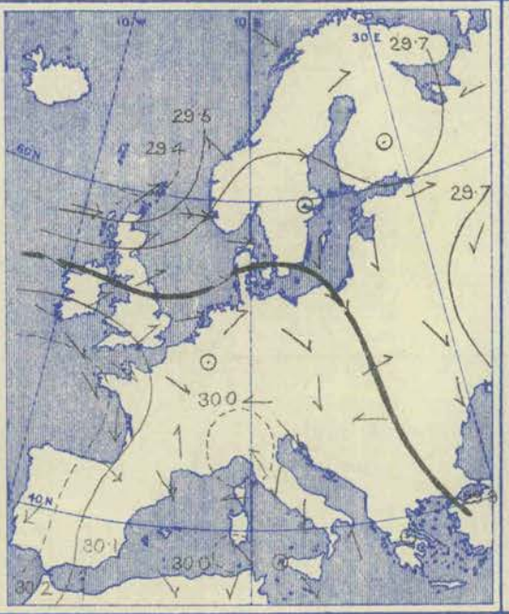
Temperature and Weather. 8 a.m.



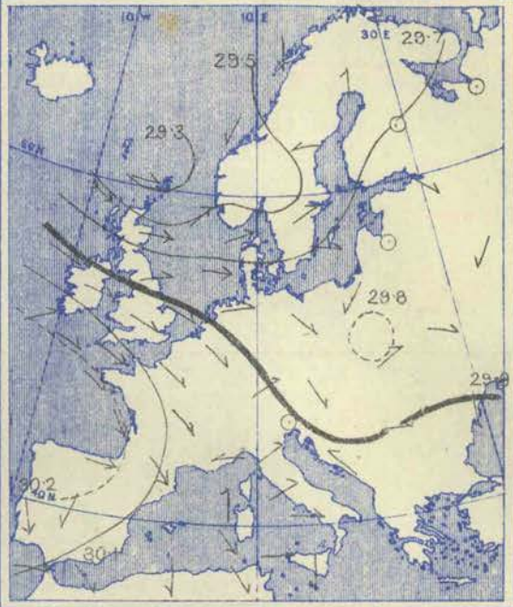
Weather in morning fair over our Islands as a whole, but dull at several of our northern stations, as well as over the eastern shores of the North Sea, with rain at Malin Head, Skudesnaes, and the Scaw. Dull also over northern Russia and in France, with rain in the extreme south of the latter country; fine in Sweden, and also in Austria, Italy, and the south of Russia. A little rain falling later in the extreme north and north-west of our Islands generally, as well as in many parts of Scandinavia, Denmark, and Germany. Thunderstorms and heavy rain occurring in the extreme south of France.

Temperature fallen in most places, but risen over the south-eastern parts of England, and also in Italy. Morning readings highest, 90° at Brindisi, 87° at Trieste and Athens, and 86° at Sanguinaire; above 80° at most of the Mediterranean and Adriatic stations. Lowest, 48° at Bodö, 51° at Sumburgh Head, 53° at Christiansund, and 54° at Haparanda, Stornoway, Ardrossan, Malin Head, and Belmullet. Daily maxima below 60° on our extreme north and north-west coasts, but thermometer exceeding 70° over the south-eastern parts of England. Exceeding 90° in many parts of southern Europe, and reaching 99° at Florence.

Barometer and Wind. 8 a.m.



6 p.m.



Wind Westerly or South-Westerly over our Islands and the eastern and southern shores of the North Sea; very strong in force in the north of Ireland and the west of Scotland, and blowing a gale at Skudesnaes. Light to moderate from the Northward or North-Westward over Russia, eastern Germany, and the south of Sweden; variable in Austria and Italy; Northerly or North-Westerly over France and the Spanish Peninsula. Subsequently veering to the North-Westward in many parts of our Islands; increasing considerably in the north of Scotland, and blowing a gale in the Hebrides.

Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the Atlantic over the western parts of the Spanish Peninsula, and also over the extreme north-west of France. Lowest, 29·4 ins. and less in a depression lying off the north of Scotland; 29·6 ins. and less in a shallow system over central Russia. Depression off our northern coasts subsequently moving steadily eastwards, and barometer rising again in the west and north of our Islands generally.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week barometrical pressure was highest over northern, but high also over southern Europe, the weather in the more western countries being affected partly by a depression which appeared off our south-west coasts, and partly by shallow secondary systems which advanced over England from the southward. These disturbances occasioned thunderstorms in many parts of England and France, the wind in our Islands being light or moderate in force from the Eastward or South-Eastward.

Later on the high and low pressure systems dispersed, and for a time the barometrical readings became very uniform, the winds being light and variable, and the weather still rather unsettled in the more western countries, with thunderstorms in places. After June 29th, a new anticyclone began to spread over our Islands from the westward, and Northerly winds, with improving weather, set in very generally. Towards the close of the week, however, the anticyclone moved southwards, and a well marked depression passed eastwards along our extreme northern coasts. The wind consequently backed to the Westward over our Islands generally, the weather being fair in the south, but showery in the north, with a gale from the Westward in the west and north of Scotland. During the latter part of the week severe thunderstorms were reported over the central and southern parts of France, the storms being accompanied in many instances by exceedingly heavy rain, and by destructive hail showers.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 152.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	25·5	- 9·0	21	- 7	EASTBOURNE	42·6	- 7·3	37	- 8
OSWALDKIRK (Yorkshire)	20·8	- 15·1	18	- 13	VENTNOR	36·0	?	32	?
WORKSOP	24·6	- 10·5	21	- 10	SOUTHPORT	39.1	?	33	?
THURCASTON (Leicestershire)	35·3	- 2·5	30	- 3	COLWYN BAY	50·4	?	43	?
MARGATE	40·6	0·0	36	0	NEWQUAY	52·4	- 0·6	46	0
WESTBOURNE (Sussex)	46·6*	- 0·6	41*	- 1	TORQUAY	45·5*	- 7·5	40*	- 8
BRIGHTON	45·7	- 6·1	40	- 6	GUERNSEY	53·5*	- 2·0	48*	- 1

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

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VOL. XIV. No. 27.] *Third Series.* WEEK ENDING SATURDAY, JULY 10TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 158.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	66	39	57·1	46·6	51·5	3 below	67	-11	0	0	762	+ 23	615	- 8
	1. SCOTLAND, EAST -	70	36	62·0	46·3	53·6	3 below	81	-15	0	0	905	- 22	661	+ 12
	2. ENGLAND, N.E. -	71	42	63·7	49·4	56·1	2 below	99	- 3	0	0	1112	+ 71	471	- 78
	3. ENGLAND, EAST -	75	37	67·9	50·2	58·4	1 below	115	+ 1	0	0	1295	+143	493	-124
	4. MIDLAND COUNTIES	76	37	66·6	49·1	57·3	2 below	107	- 6	0	0	1284	+ 93	504	-115
	5. ENGLAND, SOUTH -	79	44	68·3	52·6	60·0	0 (average)	126	+ 5	0	0	1428	+164	297	-180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	69	43	59·5	48·9	53·8	3 below	83	-14	0	0	996	+ 4	441	- 21
	7. ENGLAND, N.W. -	67	46	61·7	51·2	56·1	3 below	99	- 8	0	0	1125	+ 73	367	- 92
	8. ENGLAND, S.W. -	79	35	65·3	52·4	58·4	1 below	115	+ 3	0	0	1385	+164	223	-138
	9. IRELAND, NORTH -	68	42	61·1	48·8	54·6	3 below	88	-12	0	0	1052	- 34	403	+ 8
	10. IRELAND, SOUTH -	72	39	63·1	41·0	56·6	2 below	102	- 7	0	0	1347	+ 84	242	- 57
	—CHANNEL ISLANDS-	70	46	65·5	54·2	59·5	1 below	123	+ 2	0	0	1615	+237	68	- 80

Rainfall.

Bright Sunshine.

	DISTRICTS. (See p. 158.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	5	14	7 more	119	- 1	20·6	- 2·0	21	-14	18	-11	700	+47	29	+ 2
	1. SCOTLAND, EAST -	4	3	3 less	108	+11	14·8	+ 0·5	45	+ 7	38	+ 6	708	- 28	30	- 1
	2. ENGLAND, N.E. -	2	2	4 less	100	+ 9	11·5	- 0·1	42	+ 5	35	+ 4	757	+37	32	+ 2
	3. ENGLAND, EAST -	2	less than ½	5 less	98	+10	12·0	+ 0·5	48	+ 4	42	+ 3	838	+ 2	35	0
	4. MIDLAND COUNTIES	2	1	5 less	96	+ 9	14·1	+ 1·2	49	+ 9	42	+ 7	799	+43	34	+ 2
	5. ENGLAND, SOUTH -	1	1	4 less	90	+ 7	14·8	+ 1·8	58	+12	51	+10	887*	+14	37	0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	5	12	5 more	117	+14	22·0	- 0·1	35	- 7	29	- 5	748	- 30	31	- 1
	7. ENGLAND, N.W. -	4	6	0 (average)	112	+19	16·5	+ 1·9	43	- 4	37	- 4	811	+ 18	33	+ 1
	8. ENGLAND, S.W. -	2	2	4 less	111	+17	21·4	+ 4·3	49	- 1	43	- 1	900	- 25	38	- 1
	9. IRELAND, NORTH -	5	9	2 more	126	+16	21·1	+ 4·4	34	- 4	29	- 3	697	- 39	29	- 2
	10. IRELAND, SOUTH -	3	4	3 less	117	+17	22·1	+ 3·8	37	- 2	32	- 2	754	- 77	32	- 3
	— CHANNEL ISLANDS-	3	1	3 less	122	+21	18·4	+ 3·9	54	+ 3	49	+ 4	929	-109	40	- 4

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was fine and dry over the greater part of England, but over Scotland, Ireland, and the north-west of England it was unsettled and rainy until nearly the end of the week, when the fine weather became general.

Temperature was just equal to the mean in England S., but below it in all other parts of the country, the deficiency being as much as 3° over the northern and north-western parts of the Kingdom. The highest of the maxima were registered, as a rule, either on the 9th or 10th, and ranged from 79° in England S. and S.W. to 68° in Ireland N., 67° in England N.W., and 66° in Scotland N. The lowest of the minima, which were recorded on the 8th, varied from 35° in England S.W., 36° in Scotland E., and 37° in England E. and the Midland counties to 46° in England N.W. and the Channel Islands. Early on the morning of the 8th there was hoar frost on the grass over some parts of Norfolk, and the readings inland were very low generally.

Rainfall was much more than the mean in Scotland N. and W., and rather so in Ireland N. ; in England N.W. the fall just equalled the normal, while in all other districts there was a deficit. Over the greater part of England the fall was very slight and on the last two days there was none.

Bright Sunshine was less than the mean in all the western districts, as well as in Scotland N., but somewhat above it in the east and south. The percentage of the possible duration ranged from 51 in England S., 49 in the Channel Islands, and 43 in England S.W. to 29 in Scotland W. and Ireland N., and to 18 in Scotland N.

Barometer and Wind.—During the earlier half of the week depressions moved from the south-westward and westward over the northern parts of our area, and spread at the same time considerably to the southward. The winds were consequently from between South-West and West or North-West, and frequently blew very strongly in the north-west, and freshly elsewhere. By Thursday these disturbances had disappeared, and an anticyclone gradually extended over our Islands from the south-westward. The winds consequently became light from the Westward very generally, but finally shifted to the Northward or North-Eastward in the south-east and south.

* This value has been altered owing to the receipt of further information for a preceding week.

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213 | 70 7 | 97 1897.

II.—DATA from which the SUMMARY on page 157 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N	Sumburgh Head	57	43	54·4	46·4	50·1	− 1·9	57	0	6	0·80	+ 0·30	*	*	*	*
	Stornoway	61	42	56·0	46·1	50·7	− 3·0	61	0	5	0·80	+ 0·13	30·2	−10·2	25	− 8
	Wick	64	39	60·3	46·6	53·0	− 1·5	77	0	5	0·56	+ 0·03	*	*	*	*
	Lairg $	66	41	59·1	45·6	51·9	− 2·6	69	0	5	0·54	− 0·06	*	*	*	*
	Glencarron $	59	40	54·5	44·5	49·2	− 5·7	50	0	6	3·37	+ 2·15	*	*	*	*
	Fort Augustus $	? 64	42	58·3	47·8	52·7	− 3·8	75	0	4	1·34	+ 0·64	13·4	−14·6	11	−11
	Fort William $	63	45	57·2	48·9	52·8	− 3·7	76	0	6	2·61	+ 1·52	20·1	−17·2	17	−15
1. SCOTLAND, E.	Nairn	67	38	61·6	46·7	53·6	− 3·1	81	0	4	0·44	− 0·06	*	*	*	*
	Aberdeen	67	41	62·4	48·1	54·8	− 1·7	90	0	5	0·36	− 0·14	46·6	+ 4·2	39	+ 4
	Braemar $	68	38	58·3	44·4	50·9	− 3·4	62	0	4	0·36	− 0·32	38·0†	− 0·5†	31†	− 1†
	Ochtertyre $	70	39	63·1	45·4	53·6	− 4·1	81	0	4	0·19	− 0·49	*	*	*	*
	Leith	70	42	65·0	48·9	56·4	− 1·6	101	0	3	0·09	− 0·41	*	*	*	*
	Marchmont $	66	36	61·4	44·4	52·3	− 3·8	72	0	3	0·16	− 0·51	48·8	+ 8·8	41	+ 8
2. ENGLAND, N.E.	Alnwick Castle	65	43	61·3	49·7	55·1	− 1·4	92	0	3	0·17	− 0·33	*	*	*	*
	Durham	71	42	65·8	47·3	55·9	− 2·3	97	0	1	0·12	− 0·42	46·5	+ 9·3	39	+ 7
	Shields	67	43	63·0	48·7	55·4	− 1·7	94	0	3	0·19	− 0·32	*	*	*	*
	Scarborough ℳ	69	44	63·5	48·8	55·6	− 2·8	95	0	1	0·19	− 0·35	* *	*	*	*
	York	69	44	64·9	49·7	56·8	− 2·4	104	0	3	0·21	− 0·37	40·7	+ 3·0	35	+ 4
	Spurn Head	68	49	63·7	52·1	57·5	− 1·2	109	0	1	0·03	− 0·35	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	73	37	67·8	48·1	57·3	− 2·4	107	0	2	0·07	− 0·53	40·5	− 2·2	35	− 2
	Yarmouth	71	45	65·4	52·7	58·6	− 0·9	116	0	3	0·06	− 0·46	*	*	*	*
	Geldeston	72	41	67·6	50·4	58·4	− 1·0	115	0	0	—	− 0·50	44·2	− 2·1	39	− 2
	Cambridge	75	39	70·3	49·6	59·2	− 1·6	120	0	1	0·01	− 0·53	49·6	+ 6·0	44	+ 6
	Rothamsted	73	40	68·2	50·4	58·7	− 0·9	117	0	2	0·06	− 0·51	56·8	+11·8	50	+11
4. MIDLAND COUNTIES	Harrogate															
	Bawtry (Hesley Hall)	70	42	66·7	49·6	57·6	− 1·9	109	0	1	0·03	− 0·55	*	*	*	*
	Loughborough	75	42	67·3	49·7	57·9	− 2·9	111	0	1	0·01	− 0·49	*	*	*	*
	Stamford (Duddington)	74	40	68·4	47·6	57·3	− 3·1	107	0	1	0·02	− 0·48	*	*	*	*
	Cheadle ℳ	66	43	61·6	48·7	54·7	− 2·4	89	0	2	0·25	− 0·47	*	*	*	*
	Shirley (near Solihull)	69	41	66·0	48·1	56·4	− 3·0	101	0	2	0·06	?	*	*	*	*
	Churchstoke ℳ	72	42	64·4	47·9	55·6	− 1·8	95	0	4	0·18	− 0·34	50·4	+ 9·4	44	+ 8
	Hereford ℳ	76	40	70·0	49·9	59·3	− 0·7	121	0	1	0·04	− 0·44	*	*	*	*
	Cirencester	75	37	67·1	49·1	57·5	− 1·2	109	0	1	0·09	− 0·52	50·6	+ 8·2	44	+ 7
	Oxford	75	43	68·3	51·6	59·4	− 1·0	122	0	1	0·04	− 0·52	58·6	+16·0	51	+14
5. ENGLAND, S.	London	76	44	72·1	52·4	61·6	− 0·4	137	0	2	0·02	− 0·48	57·9†	+18·7†	51†	+17†
	North Foreland	73	50	67·7	53·4	60·1	+ 0·7	127	0	1	0·29	?	*	*	*	*
	Dungeness	71	44	66·1	53·1	59·2	− 1·0	120	0	2	0·15	− 0·25	*	*	*	*
	Hastings (St. Leonards)	71	51	65·7	53·2	59·0	− 0·6	119	0	2	0·28	− 0·15	57·5	+ 7·3	51	+ 7
	Southampton	79	45	72·2	51·7	61·3	0·0	135	0	1	0·04	− 0·48	57·6	+10·6	51	+10
	Hurst Castle	73	48	67·3	55·0	60·7	+ 0·1	131	0	1	0·05	− 0·45	*	*	*	*
	Shaftesbury ℳ	73	45	67·1	49·8	57·9	− 0·3	111	0	1	0·02	− 0·65	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	46	57·5	48·8	52·9	− 4·2	76	0	6	2·67	+ 1·52	*	*	*	*
	Glasgow	62	44	58·2	48·6	53·1	− 4·0	78	0	5	0·55	− 0·10	30·3	− 6·7	25	− 5
	Ardrossan	63	48	58·3	49·9	53·8	− 3·7	83	0	4	0·36	− 0·19	*	*	*	*
	Glenlee $	64	45	60·6	48·3	54·0	− 3·2	84	0	5	1·42	+ 0·66	*	*	*	*
	Gilcrux	69	46	61·4	49·3	54·9	− 1·7	90	0	6	1·25	?	30·8	?	26	?
	Douglas (Isle of Man)	63	43	60·8	48·3	54·1	− 2·7	85	0	5	1·04	+ 0·52	42·4	− 6·6	36	− 6
7. ENGLAND, N.W.	Stonyhurst	63	46	59·9	49·7	54·4	− 3·8	87	0	5	1·28	+ 0·43	41·2	− 0·8	35	− 1
	Blackpool ℳ	67	49	63·0	52·4	57·3	− 1·7	107	0	5	0·56	+ 0·04	36·8	− 6·2	31	− 6
	Manchester (Prestwich)	66	46	61·8	49·4	55·2	− 2·8	92	0	5	0·56	− 0·18	38·9	?	33	?
	Liverpool Obsy. (Bidston)	64	50	62·0	52·3	56·8	− 2·7	104	0	3	0·28	− 0·23	*	*	*	*
	Llandudno ℳ	65	49	62·2	52·8	57·2	− 2·0	106	0	3	0·37	− 0·11	*	*	*	*
	Holyhead	63	48	61·0	50·7	55·5	− 3·0	95	0	4	0·77	+ 0·30	*	*	*	*
8. ENGLAND, S.W.	Llandovey	79	35	68·7	49·6	58·5	− 0·1	116	0	3	0·39	− 0·39	*	*	*	*
	Pembroke	66	50	61·3	54·0	57·4	− 0·6	108	0	2	0·03	− 0·43	52·8	− 0·2	46	0
	Clifton	76	48	67·2	54·7	60·5	+ 0·6	130	0	3	0·22	− 0·32	*	*	*	*
	Arlington (N. Devon)	69	45	63·3	51·0	56·7	− 1·2	103	0	3	0·48	− 0·40	*	*	*	*
	Cullompton ℳ	76	38	69·1	50·4	59·1	− 1·2	120	0	2	0·09	− 0·62	49·8	+ 5·8	44	+ 5
	Falmouth	70	46	65·1	53·7	59·0	− 0·2	119	0	2	0·25	− 0·43	45·9	− 6·1	41	− 4
	Plymouth	67	42	64·9	53·1	58 6	− 2·1	116	0	1	0·11	− 0 39	48 4	+ 2·2	43	+ 2
	Prawle Point	67	46	62·6	52·9	57·4	− 0·8	108	0	2	0·35	− 0·05	*	*	*	*
9. IRELAND, N.	Malin Head	62	47	57·0	49·3	52·9	− 3·5	76	0	5	1·17	?	*	*	*	*
	Londonderry	65	44	61·2	48·0	54·1	− 3·9	85	0	5	0·63	+ 0·03	*	*	*	*
	Edenfel (Omagh)	65	43	61·0	49·4	54·8	− 1·8	90	0	5	0·75	+ 0·12	*	*	*	*
	Belmullet	62	47	59·0	50·3	54·4	− 3·3	87	0	5	1·43	+ 0·73	*	*	*	*
	Markree Castle	68	42	61·5	48·9	54·8	− 1·5	90	0	6	0·84	+ 0·07	32·5	− 3·5	28	− 2
	Armagh	66	44	63·0	48·1	55·0	− 2·5	91	0	5	0·58	− 0·10	35·3	− 2·9	30	− 3
	Donaghadee	68	42	63·3	48·3	55·3	− 1·9	93	0	5	0·52	+ 0·02	*	*	*	*
	Edgeworthstown	67	43	63·1	48·3	55·2	− 2·3	92	0	5	0·84	+ 0·24	*	*	*	*
10. IRELAND, S.	Dublin	69	46	64·5	51·7	57·7	− 2·0	110	0	3	0·34	− 0·09	35·4	− 5·6	31	− 3
	Parsonstown	67	43	63·0	49·7	55·9	− 2·2	97	0	3	0·49	− 0·01	33·0	− 2·4	29	− 2
	Kilkenny	68	39	63·6	49·6	56·1	− 2·4	99	0	3	0·29	− 0·27	*	*	*	*
	Roche's Point	66	48	62·3	52·9	57·3	− 2·2	107	0	3	0·08	− 0·59	*	*	*	*
	Valencia	64	49	60·4	52·9	56·4	− 2·0	101	0	4	0·38	− 0·59	41·9	+ 0·2	37	+ 1
	Killarney	72	40	64·5	49·3	56·4	− 1·3	101	0	4	0·38	?	*	*	*	*
	Foynes	?	45	?	51·4	?	?	?	?	4	0·65	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	51	65·4	54·0	59·3	0·0	121	0	2	0·08	− 0·39	47·9	?	43	?
	Jersey	70	46	65·6	54·4	59·6	− 1·6	123	0	3	0·16	− 0·28	48·6	− 5·0	44	− 4

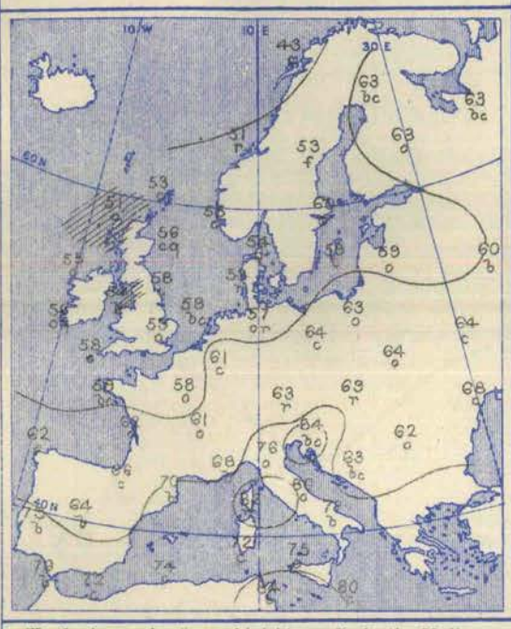
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked $ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 4th July.

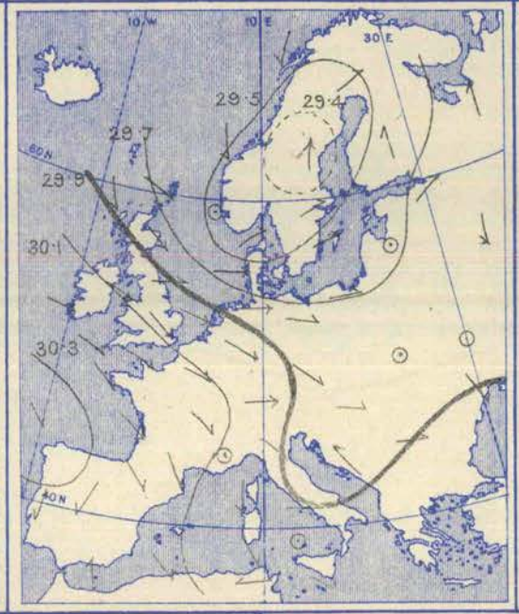
Temperature and Weather. 8 a.m.

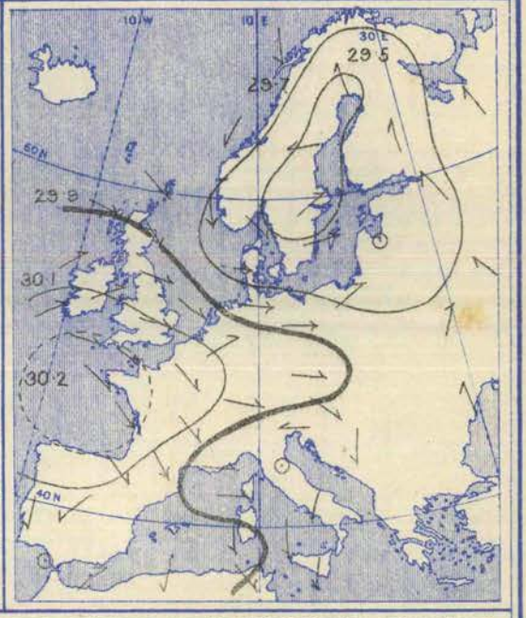


Weather in morning fine and bright over Spain, the Mediterranean, the greater part of France, and the extreme south of the British Islands, as well as over the central and northern parts of Russia; cloudy or overcast elsewhere, with rain in many parts of central and northern Europe. Rain falling later over northern Europe and the northern and north-western parts of the British Islands—the largest amounts being about 0·4 in. in the north-west of Ireland and at Vienna.

Temperature fallen over central Europe. Morning readings highest, 84° at Trieste, 82° at Tunis, 80° at Rome, and above 70° at nearly all the Mediterranean stations; above 60° over central and eastern Europe generally, 63° at Knopio and Ulcaborg. Lowest, 48° at Bodö, 51° at Stornoway, 52° at Malin Head, and below 60° over almost the whole of our Islands. Rising later to between 60° and 69° over the greater part of our Islands and the northern half of France, to 71° at Dungeness, 78° at Perpignan, 82° at Gap, 86° at Palermo and Tunis, and to 90° at Laghouat.

Barometer and Wind. 8 a.m. and 6 p.m.



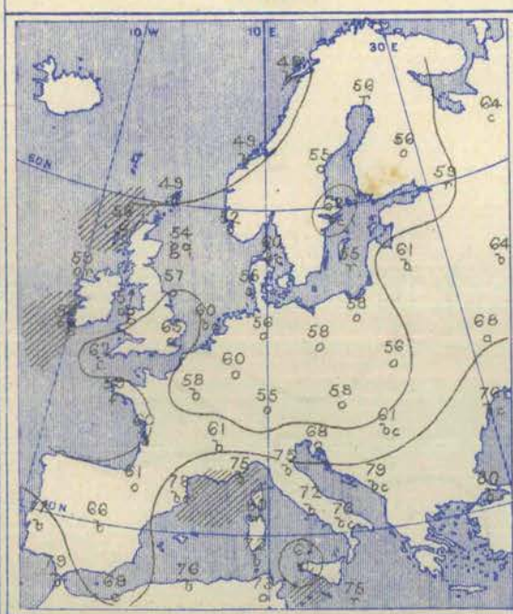


Wind (1) North-Westerly to Westerly, and strong, over the United Kingdom, Westerly and moderate over north Germany, South-Westerly to Southerly over Sweden and Finland, but Northerly along the north-west coast of Norway; (2) light and variable over southern and south-eastern Europe. Falling light over our Islands later, and backing to the South-Westward on our western coasts.

Barometer highest, 30·3 ins. and more to 30·0 ins. in the eastern half of an anticyclone covering the Bay of Biscay, Spain, France, and the south-western half of our Islands. Lowest, below 29·4 ins. in a depression lying over the central parts of Scandinavia, and rather low in a very large "V" stretching thence across western Russia and Hungary to Austria, the Adriatic, and Italy. Rising later over Scotland and Norway, falling again on our own western coasts.

Monday, 5th July.

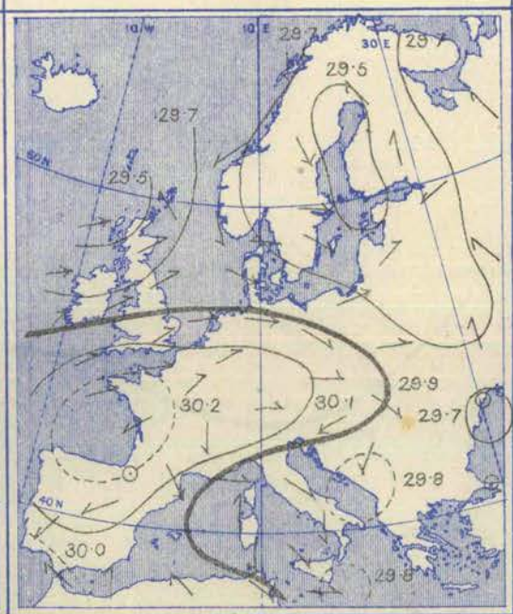
Temperature and Weather. 8 a.m.

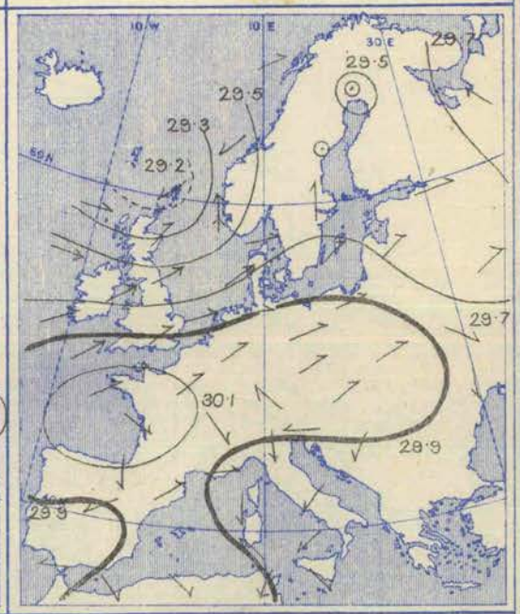


Weather in morning cloudy or dull over north-western Europe as a whole, with rain in the north of Ireland and the south of Scotland, as well as at Sumburgh Head; fine in the north of Scotland and the west of Norway. Dull over Austria, Germany, the Baltic, and the northern parts of Sweden and Russia, with rain at Wisby, Haparanda, and St. Petersburg. Fine over France and southern Europe generally. Rain falling later in most of the north-western and northern countries, but amount not large.

Temperature risen in our Islands, and also in Sweden and Russia, but fallen in most other countries. Morning readings highest, 80° at Sanguinaires and Constantinople, 79° at San Fernando, and 78° at Barcelona; above 70° in many parts of southern Europe. Lowest, 48° at Bodö, 49° at Christiansund and Sumburgh Head, and 52° at Skudesnaes. Daily maxima below 60° on our extreme north and north-west coasts, but thermometer exceeding 65° in most other parts of Great Britain, and exceeding 70° in the east and south-east of England; reaching 81° at Lisbon, and 82° at Nice and Perpignan.

Barometer and Wind. 8 a.m. and 6 p.m.





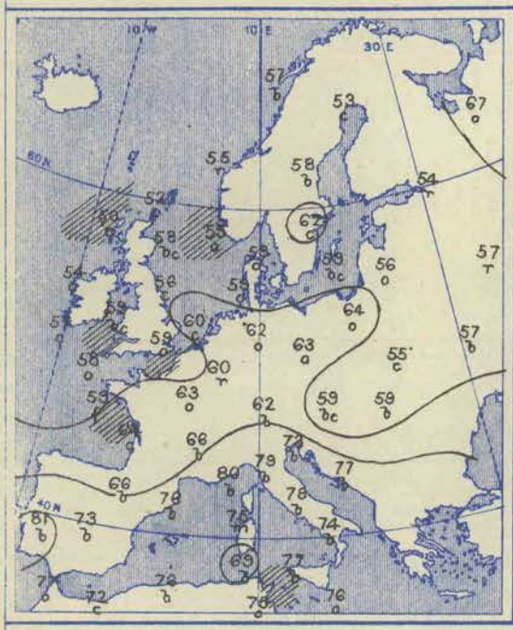
Wind South-Westerly over our Islands and the neighbouring parts of the Continent, and strong in force in the west of Ireland. Northerly or North-Easterly in the west of Norway; North-Westerly or Westerly over Sweden, Denmark, and Germany; Southerly or South-Easterly at most of the Russian stations. Rather variable over southern Europe, but chiefly from the Northward or Eastward. Subsequently blowing strongly from the South-Westward or Westward in nearly all parts of the United Kingdom.

Barometer highest, 30·2 ins. and upwards in an anticyclone over the Bay of Biscay and the west of France. Lowest, 29·5 ins. and less in two depressions—one lying off the north-west of Scotland, and the other over the Gulf of Bothnia; 29·8 ins. and less in two other systems—one lying over the Adriatic, and the other to the southward of Sicily. Depression off Scotch coasts spreading south-eastwards later, and barometer falling briskly over our Islands generally.

Tuesday, 6th July.

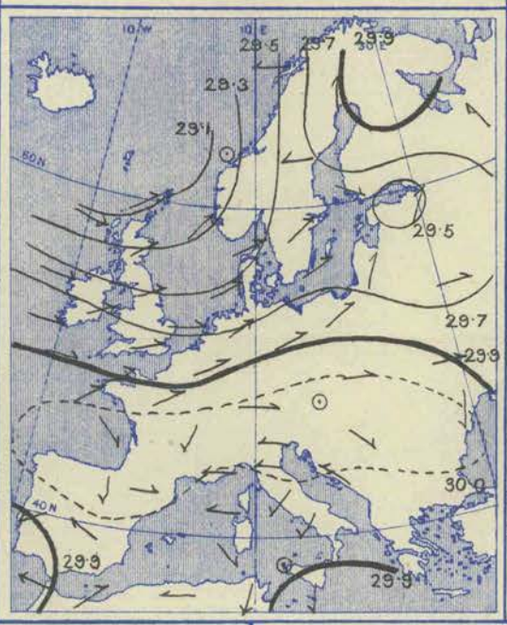
Temperature and Weather.

8 a.m.

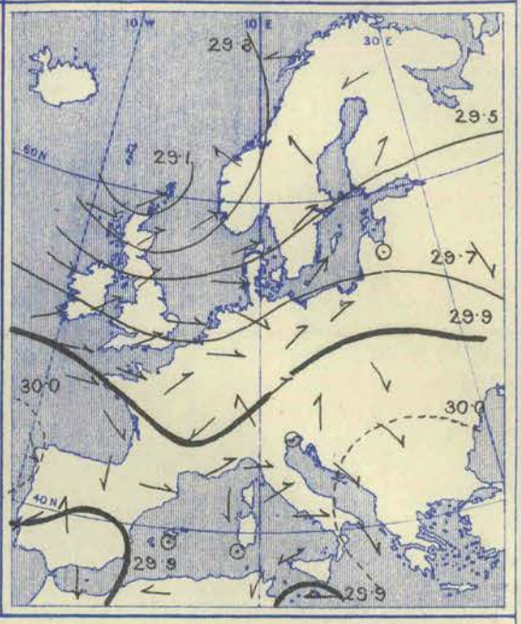


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over southern and central Europe; cloudy and changeable over the greater part of our Islands, with rain along our south coasts, as well as over the north-east of France and Belgium; showers at some western and northern stations. Dull and very rainy over the northern half of Russia. Showers falling later in the west and north of our Islands (about a quarter of an inch over the extreme north of Scotland and Ireland, but very little elsewhere); a considerable fall over the shores of the eastern half of the English Channel, as well as over Belgium and north Germany.

Temperature fallen considerably over the British Islands, risen over central Europe. Morning readings highest, (1) 81° at Lisbon, 80° at Toulon and Nice, and exceeding 70° at many of the stations in Algeria and southern Europe; (2) 67° at Archangel, 62° at Stockholm, 61° at Yarmouth. Lowest, 50° to 53° over the northern parts of Scotland and Ireland, 55° in the west of Norway. Rising later to 90° at Lyons, 86° at Nice, 73° at Paris, 71° in London and at Cambridge, but not touching 60° over the northern half of Scotland.

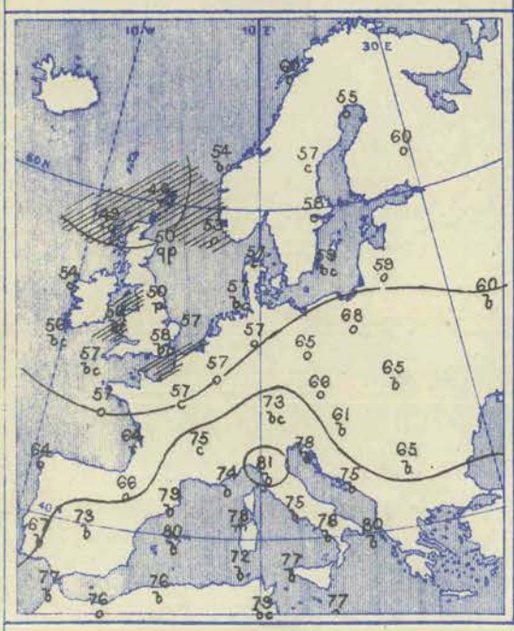
Wind (1) moderate from between East and North over the Mediterranean and southern Europe; (2) light and anticyclonic over the southern parts of France and Germany, with Switzerland and the south of Russia; (3) fresh to strong from the Westward over the British Islands, and from the South-Westward on the eastern shores of the North Sea; moderate to light from between South and East over the greater part of northern Europe. Rising to a gale later on our north-western coasts, and blowing freshly over the eastern parts of England.

Barometer highest, (1) 30·1 ins. to 29·9 ins. over all the southern, central, and south-eastern countries, and the Mediterranean; (2) exceeding 29·9 ins. over the Kola Peninsula and north of Finland. Lowest, 29·1 ins. and less in a well-marked depression off our extreme northern coasts, and below 29·5 ins. in a smaller system near St. Petersburg. Beginning to rise later over the north-western parts of the British Islands as the northern depression moved north-eastwards.

Wednesday, 7th July.

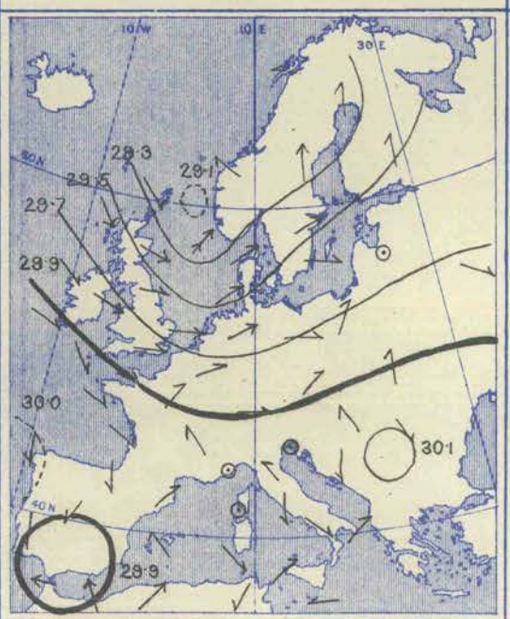
Temperature and Weather.

8 a.m.

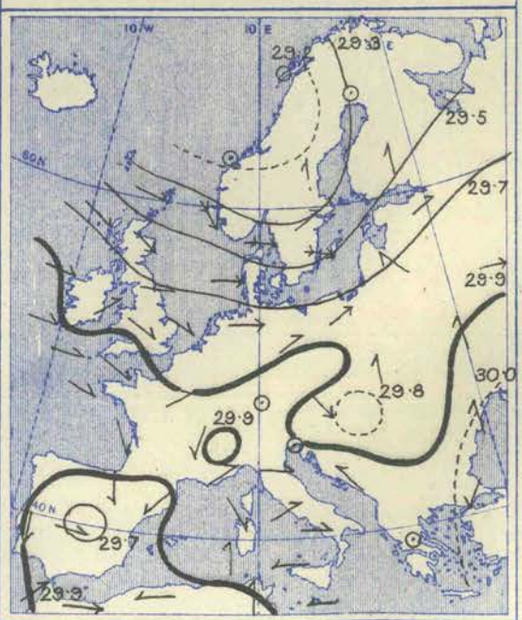


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning changeable and unsettled over the northern parts of the British Islands and Continental Europe, with squalls and showers in places; dull over Germany and the northern half of France, rainy at Rochefort; fine and bright over the greater part of England, as well as over the southern parts of Spain, the Mediterranean, and south-eastern Europe. Some rain later over the northern districts (0·32 in. at Haparanda), and rather more over several parts of Germany and France, with thunder and lightning locally.

Temperature showing a further decrease over the British Islands, and a great decrease at Lisbon, and an increase over southern and central Europe. Morning readings highest, 78° at La Calle and Trieste, 81° at Leghorn, and exceeding 70° at most of the stations in southern Europe; 69° to 65° over the eastern parts of north Germany. Not touching 70° in any part of our Islands later; reaching 66° at Berlin, 68° at Paris, 82° at Nice, and 93° at Lyons. Succeeding night cold over England.

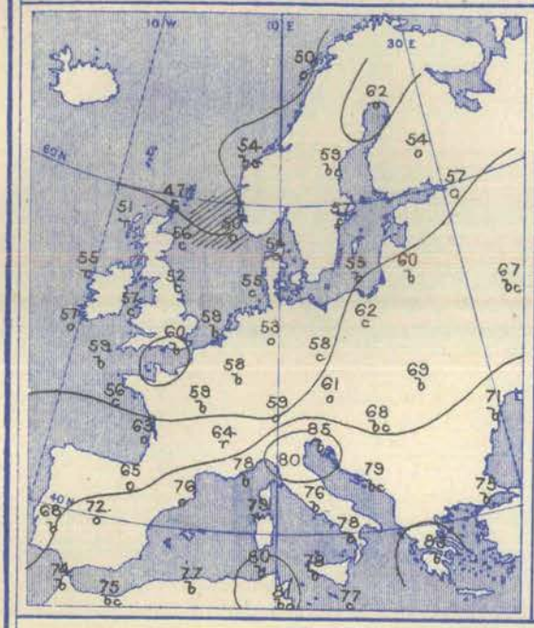
Wind (1) light and anticyclonic over the south-western, southern, and south-eastern parts of Europe; (2) moderate to very strong over the more northern countries—from North-West and West over our Islands, from West over the Netherlands, from South-West and South-South-West over Denmark, the Baltic, and Sweden, and light from the Eastward in the north-west of Norway. Subsiding steadily in the British Islands later, and beginning to back a little in the west of Ireland.

Barometer highest, 30·0 ins. and more to 29·9 ins. over the southern countries and the extreme south-west of our Islands generally. Lowest, below 29·2 ins. in a complex depression covering Norway and the adjacent parts of the Atlantic. Gradients rather steep for Westerly and North-Westerly winds over the British Islands, moderate for South-Westerly over Sweden and the eastern shores of the North Sea. Rising decidedly over almost the whole of the United Kingdom and North Sea all day, but beginning to fall again in the west of Ireland at night.

Thursday, 8th July.

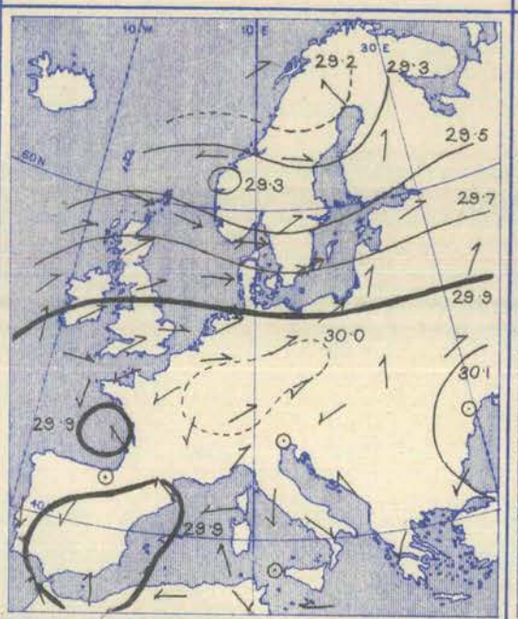
Temperature and Weather.

8 a.m.

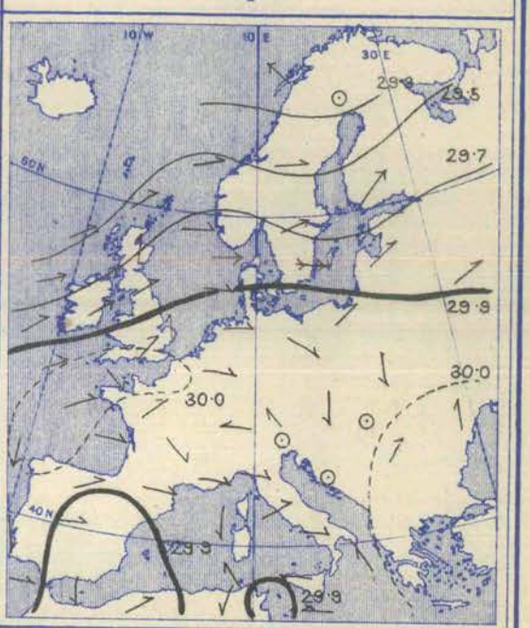


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, southern and eastern Europe, as well as over almost the whole of England and many parts of Scandinavia; cloudy or overcast elsewhere, with rain in several parts of Ireland, as well as at Lorient and Lyons. Considerable rain later in the north of Ireland, and North Wales, as well as at Bodö on the one hand and Belfort on the other.

Temperature rising over our Islands, after a cold night. Morning readings highest, 85° at Trieste, and 80° or more at Athens, Patras, Cagliari and Leghorn, 82° at La Calle, and considerably above 70° over the Mediterranean generally; 67° at Moscow, 60° to 63° over the south-eastern counties of England. Lowest, 47° at Sumburgh Head, 50° at Bodö and Skudesnaes, and 51° at Stornoway and Malin Head. Rising later to between 67° and 72° over England, to 72° at Berlin, 73° at Paris, 79° at Rochefort, and 84° at Nice.

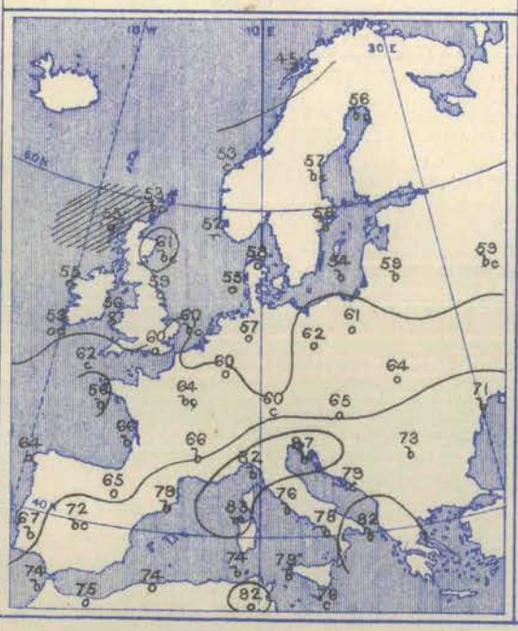
Wind light to very variable (anticyclonic) over western, central, and eastern Europe; Southerly to Westerly, and strong in places, over Finland, the Baltic and Scandinavia; Southerly and South-Westerly over the British Islands, and blowing briskly in the west and north of Ireland. Veering a little on our north-western coasts later and blowing rather strongly in those regions. No great change elsewhere.

Barometer in morning highest, 30·1 ins. and more over the south of Russia, and exceeding 30·0 ins. over all but the northern and north-western countries. Lowest, below 29·2 ins. over Lapland, and below 29·6 ins. over the Shetlands. Slight local disturbances over Norway and some parts of France. Falling rather decidedly over the north-west of our Islands later, rising over Scandinavia, the Baltic and eastern shores of the North Sea.

Friday, 9th July.

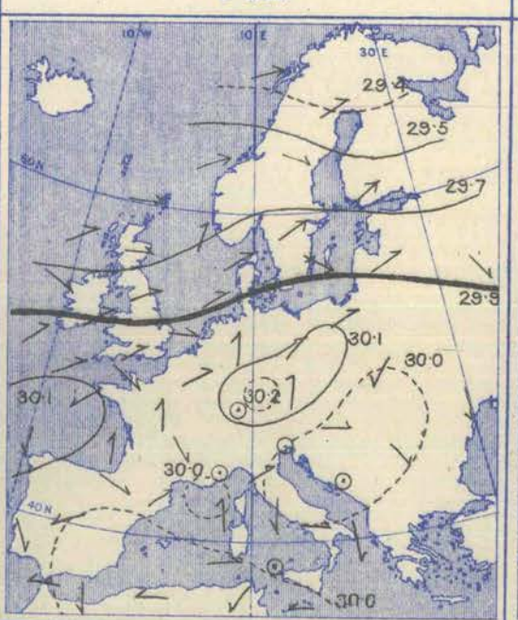
Temperature and Weather.

8 a.m.

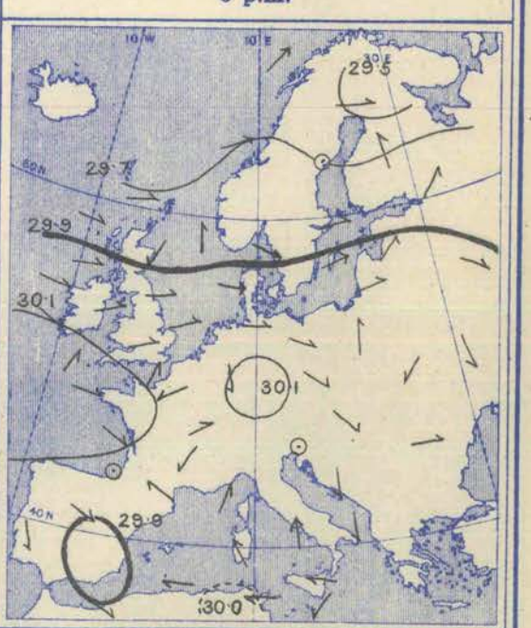


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the Mediterranean, Spain, and France, as well as over the east of Scotland, Sweden, Finland, and the north of Russia; cloudy over Ireland, England, the Netherlands, and central Europe, with slight rain at several of our own stations, and at the Helder. Rain falling later over Norway, Denmark, Finland, and the Baltic Provinces, but none at the British and Irish stations, where, in fact, the sky cleared.

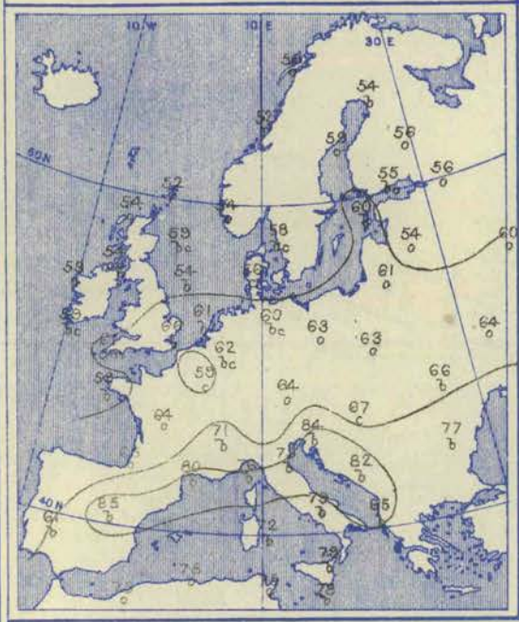
Temperature rising over our Islands and France. Morning readings highest, 87° at Trieste, 83° at Sanguinaires, 82° at La Calle, Brindisi, and Leghorn, 75° at Nice, and above 60° over the greater part of central Europe, and several parts of England. Lowest, 45° at Bodö, 52° at Skudesnaes, 54° at Malin Head. Rising later to between 70° and 75° over the inland parts of England and Germany, to 75° at Paris, to between 80° and 85° over the greater part of southern France, to 91° at Cette, and 96° at Naples, but to 100° at Gap.

Wind very light and anticyclonic over the southern half of Europe; South-Westerly to Westerly over the northern countries—of moderate strength in most places, but blowing a moderate gale at Bodö. Falling light over our Islands later, and becoming anticyclonic in the south-west and west. No important change occurring elsewhere.

Barometer highest, 30·25 ins. at Munich, and exceeding 30·0 ins. over all but the northern and north-western countries. Lowest, 29·4 ins. over Lapland, and below 29·6 ins. over the Shetlands. Rising later all over north-western Europe as a new anticyclone began to spread in over our Islands from the Atlantic.

Saturday, 10th July.

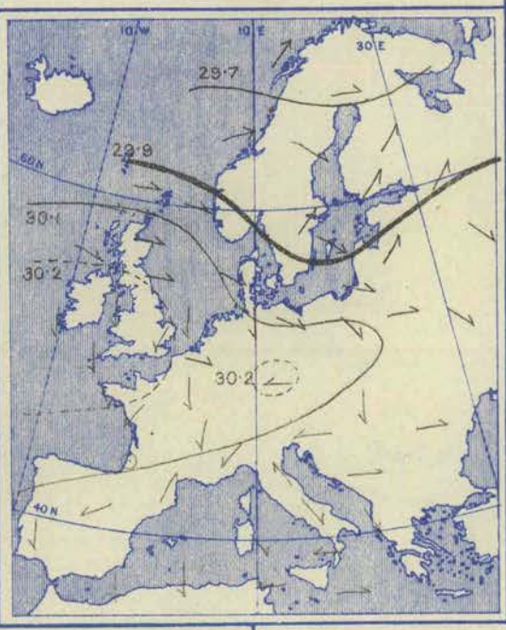
Temperature and Weather. 8 a.m.



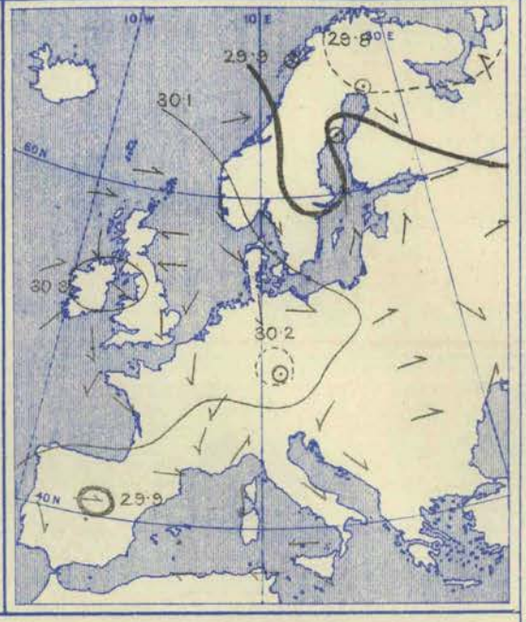
Weather in morning dull on our extreme north-western and northern coasts and over Norway (rainy at Christiansund); dull in many parts of North Germany and on the south-west coast of France; very fine elsewhere. Rain falling later in the west of Norway, and in some parts of southern Europe; falls at Munich and Turin said to be heavy (1·02 ins. and 0·82 in. respectively).

Temperature risen over our Islands, not changed decidedly elsewhere. Morning readings highest, 85° at Barcelona and Madrid, 84° at Trieste, 83° at Brindisi, 81° at Toulon, 80° at La Calle; exceeding 70° over southern and south-eastern Europe generally, 66° in London. Lowest, 50° at Bodö, 52° at Christiansund and Sumburgh Head, and 54° at Haparanda, Karlstad, Skudesnaes, Stornoway, Shields and Malin Head. Rising later to between 70° and 75° over England, to 77° at Munich and Paris, to 88° at Lyons, 93° at Palermo, 95° at Perpignan, and 97° at Marseilles.

Barometer and Wind. 8 a.m.



6 p.m.



Wind light and anticyclonic over our Islands—Westerly in the north, North-Westerly to Northerly in the east, Northerly and North-Easterly in the south and over the Bay of Biscay; Westerly and South-Westerly over northern Europe, very light and variable over the southern countries. Very little change later.

Barometer highest, 30·2 ins. and more in an anticyclone covering Ireland, England, and Brittany, and exceeding 30·1 ins. all over our Islands and the greater parts of France, Germany, and the North Sea. Lowest, below 29·7 ins. over Lapland. Rising over our Islands all day: anticyclone increasing in intensity, and advancing north-eastwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ——⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of the week the weather over north-western and northern Europe was influenced by cyclonic systems, the centres of which skirted our extreme northern coasts, and afterwards passed on to Scandinavia. Westerly (South-West to North-West) winds were therefore general, with occasional slight gales over the north of our Islands, and also in the south of Scandinavia, and with very unsettled weather; the rainfall in the extreme north being decidedly in excess of the average. In some instances, when the borders of the depression spread southwards, the unsettled weather extended to the south of our Islands, and also to France and Germany, but, as a rule, the conditions in those regions, and, in fact, over the southern half of Europe generally, were affected by a large anticyclone, the weather being consequently fair and dry.

Towards the close of the week the series of depressions in the north came to an end, and a large anticyclone spread from the south-westward over the whole of western and central Europe. Dry weather now became general, the wind remaining Westerly in the extreme northern regions, but shifting to the Northward or North-Eastward in the south of our Islands, and also over France. Over southern Europe and the Mediterranean light variable breezes were reported throughout nearly the whole week.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 158.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	47·0	+14·2	40	+13	EASTBOURNE	58·5	+ 8·9	52	+ 7
OSWALDKIRK (Yorkshire)	37·9	+ 3·1	32	+ 2	VENTNOR	58·2	?	52	?
WORKSOP	38·0	+ 3·2	33	+ 2	SOUTHPORT	46·4	?	40	?
THURCASTON (Leicestershire)	44·9	+ 7·9	39	+ 7	COLWYN BAY	50·1	?	44	?
MARGATE	54·3	+13·5	48	+11	NEWQUAY				
WESTBOURNE (Sussex)	58·7*	+11·9	52*	+10	TORQUAY	47·9*	− 2·0	43*	− 3
BRIGHTON	61·2	+10·2	54	+ 8	GUERNSEY	65·4*	+11.3	59*	+11

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

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VOL. XIV. No. 28.] *Third Series.* WEEK ENDING SATURDAY, JULY 17TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 164.)	Observed during the Week.					Above or below the Mean for the Week.	Accumulated.							
							For the Week.				From January 3rd, 1897.			
	Highest.	Lowest.	Averages of Daily Maxima.	Averages of Daily Minima.	Averages of Daily Mean.		Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.														
0. SCOTLAND, NORTH	85	38	70·7	46·9	57·8	3 above	111	+30	0	0	873	+ 53	615	- 8
1. SCOTLAND, EAST	86	35	70·3	45·6	57·1	0 (average)	106	+ 8	0	0	1011	- 14	661	+ 12
2. ENGLAND, N.E.	78	44	64·7	49·0	56·3	2 below	100	- 8	0	0	1112	+ 63	471	- 78
3. ENGLAND, EAST	80	45	70·2	50·4	59·6	1 below	123	+ 3	0	0	1418	+146	493	-124
4. MIDLAND COUNTIES	87	40	75·5	48·6	61·1	1 above	134	+18	0	0	1418	+111	504	-115
5. ENGLAND, SOUTH	88	49	73·2	55·3	63·7	3 above	152	+26	0	0	1580	+190	297	-180
Principal Grazing, &c., Districts.														
6. SCOTLAND, WEST	81	36	72·5	49·0	59·9	2 above	125	+25	0	0	1121	+ 29	441	- 21
7. ENGLAND, N.W.	78	43	72·6	51·9	61·5	2 above	137	+27	0	0	1262	+100	367	- 92
8. ENGLAND, S.W.	88	43	74·3	54·8	63·9	4 above	153	+38	0	0	1538	+202	223	-138
9. IRELAND, NORTH	82	42	72·0	51·7	61·1	4 above	134	+32	0	0	1186	- 2	403	+ 8
10. IRELAND, SOUTH	79	42	71·4	54·0	62·1	4 above	141	+30	0	0	1488	+114	242	- 57
—CHANNEL ISLANDS	80	54	71·6	58·3	64·5	4 above	158	+33	0	0	1773	+270	68	- 80

Rainfall. Bright Sunshine.

DISTRICTS. (See p. 164.)	Rainfall. For the Week.			Rainfall. From January 3rd, 1897.				Bright Sunshine. For the Week.				Bright Sunshine. From January 3rd, 1897.			
	No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
		10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.															
0. SCOTLAND, NORTH	0	—	8 less	119	- 6	20·6	- 2·8	84	+53	70	+44	784	+100	31	+ 4
1. SCOTLAND, EAST	0	—	7 less	108	+ 7	14·8	- 0·1	82	+46	69	+38	790	+ 18	31	0
2. ENGLAND, N.E.	0	—	6 less	100	+ 5	11·5	- 0·7	74	+38	66	+35	831	+ 75	33	+ 3
3. ENGLAND, EAST	0	—	6 less	98	+ 6	12·0	- 0·1	76	+32	68	+29	914	+ 34	37	+ 2
4. MIDLAND COUNTIES	1	less than ½	6 less	97	+ 6	14·1	+ 0·6	78	+39	70	+35	877	+ 82	35	+ 3
5. ENGLAND, SOUTH	0	—	6 less	90	+ 3	14·8	+ 1·3	81	+35	73	+31	968	+ 49	39	+ 2
Principal Grazing, &c., Districts.															
6. SCOTLAND, WEST	0	—	8 less	117	+10	22·0	- 0·9	81	+37	70	+32	829	+ 10	33	+ 1
7. ENGLAND, N.W.	0	—	7 less	112	+15	16·5	+ 1·2	87	+45	75	+39	898	+ 63	35	+ 3
8. ENGLAND, S.W.	0	less than ½	7 less	111	+13	21·4	+ 3·6	82	+35	74	+32	982	+ 9	40	+ 1
9. IRELAND, NORTH	1	less than ½	7 less	127	+13	21·1	+ 3·6	75	+40	66	+36	772	+ 1	31	0
10. IRELAND, SOUTH	2	2	5 less	119	+14	22·3	+ 3·3	72	+36	64	+32	826	- 41	33	- 2
— CHANNEL ISLANDS	1	less than ½	5 less	123	+18	18·4	+ 3·4	71	+28	65	+25	1000	- 81	41	- 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was upon the whole exceedingly fine and dry, the rainfall being confined almost exclusively to the extreme western and south-western parts of the Kingdom, where showers fell during the latter half of the week. Fog and mist were, however, somewhat frequent on our west and south-west coasts.

Temperature was slightly below the mean in England N.E. and E., and only just equal to it in Scotland E. In all other districts it was above the normal, the excess varying from 1° in the Midland counties to 4° in Ireland, England S.W. and the Channel Islands. The highest readings occurred at various times in the different districts, but mostly during the latter half of the week, when the thermometer rose to 80° or more in all districts excepting England N.E. and N.W. and Ireland S., and to 88° in England S. and S.W. At Shields and Spurn Head it did not get above 65°. The lowest readings were observed, as a rule, on the 11th or 12th, and were somewhat low for the time of year, the thermometer falling to 35° in Scotland E. and to 36° in Scotland W., and to 45° or less in all other districts excepting England S. and the Channel Islands. The daily range was very large, especially at some of the inland stations in Scotland; at Braemar the mean daily range for the whole week amounted to over 32°, and at Lairg to very nearly 35°.

Rainfall.—With the exception of some very local showers in the Midland counties no rain was experienced in any of the Wheat producing districts, or in Scotland W. and England N.W. In Ireland, as well as in England S.W. and the Channel Islands some showers were experienced towards the close of the week, but even in these districts the aggregate fall was very much less than the mean.

Bright Sunshine was considerably in excess of the mean, the percentage of the possible duration amounting to 65 or more in all districts excepting Ireland S. Over the west and south of England it ranged between 73 and 75.

Barometer and Wind.—The distribution of pressure was almost continuously anticyclonic. At the very beginning and also at the close of the week the area of highest pressure was located immediately over the United Kingdom, and the winds were extremely light and variable. Between the 12th and 14th, however, when the central portion of the anticyclone lay over Scandinavia the winds over our Islands were Easterly or North-Easterly, and on the more exposed parts of our south and south-east coasts they blew with considerable strength.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 163 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	66	45	61·6	47·9	54·3	+ 1·7	86	0	0	—	− 0·53	*	*	*	*
	Stornoway	73	45	60·6	51·1	59·7	+ 5·5	124	0	0	—	− 0·70	90·9	+53·9	75	+45
	Wick	74	40	66·3	46·0	55·4	+ 0·5	94	0	0	—	− 0·56	*	*	*	*
	Lairg Ⓢ	85	38	78·0	43·3	59·4	+ 5·1	122	0	0	—	− 0·68	*	*	*	*
	Glencarron Ⓢ	80	40	73·6	45·7	58·7	+ 3·9	117	0	0	—	− 1·34	*	*	*	*
	Fort Augustus Ⓢ	78	38	71·2	44·9	57·1	+ 0·6	106	0	0	—	− 0·72	74·1	+49·7	62	+42
	Fort William Ⓢ	80	40	74·5	49·4	60·1	+ 3·6	127	0	0	—	− 1·17	87·1	+54·5	73	+45
1. SCOTLAND, E.	Nairn	79	37	70·4	42·3	55·4	− 1·8	94	0	0	—	− 0·60	*	*	*	*
	Aberdeen	74	43	64·6	47·0	55·2	− 1·7	92	0	0	—	− 0·61	80·0	+40·7	67	+34
	Braemar Ⓢ	78	35	72·2	39·9	54·9	+ 0·4	99	6	0	—	− 0·67	89·3†	+54·1†	75†	+45†
	Ochtertyre Ⓢ	86	44	76·7	47·7	61·2	+ 3·2	134	0	0	—	− 0·72	*	*	*	*
	Leith	81	44	68·3	48·7	57·8	− 0·6	111	0	0	—	− 0·60	*	*	*	*
	Marchmont Ⓢ	78	44	69·3	47·7	57·8	+ 1·3	111	0	0	—	− 0·76	79·5	+40·8	67	+34
2. ENGLAND, N.E.	Alnwick Castle	68	44	62·9	48·6	55·3	− 1·7	93	0	0	—	− 0·60	*	*	*	*
	Durham	78	44	70·4	48·0	58·4	− 0·3	115	0	0	—	− 0·66	73·0	+36·6	63	+32
	Shields	65	47	60·9	49·4	54·8	− 2·7	90	0	0	—	− 0·59	*	*	*	*
	Scarborough Ⓜ	67	45	59·9	47·5	53·3	− 5·6	79	0	0	—	− 0·62	*	*	*	*
	York	78	46	71·7	48·3	59·2	− 0·3	120	0	0	—	− 0·62	80·4	+43·3	76	+44
	Spurn Head	65	50	62·1	51·9	56·6	− 2·9	102	0	0	—	− 0·40	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	76	47	69·7	50·1	59·2	− 1·2	120	0	0	—	− 0·68	73·9	+31·7	65	+28
	Yarmouth	66	52	63·7	53·9	58·5	− 1·5	116	0	0	—	− 0·62	*	*	*	*
	Geldeston	74	45	68·4	50·8	59·0	− 1·1	119	0	0	—	− 0·59	75·1	+29·3	67	+26
	Cambridge	80	45	75·1	47·6	60·4	− 0·9	120	0	0	—	− 0·58	73·0	+30·0	65	+27
	Rothamsted	77	45	73·9	49·6	60·9	+ 0·6	132	0	0	—	− 0·61	83·6	+38·3	75	+36
4. MIDLAND COUNTIES	Harrogate															
	Bawtry (Hesley Hall)	79	40	75·7	45·6	59·6	− 0·4	123	0	0	—	− 0·62	*	*	*	*
	Loughborough	80	42	74·9	46·6	59·8	− 1·4	125	0	0	—	− 0·52	*	*	*	*
	Stamford (Duddington)	79	42	74·9	46·7	59·8	− 1·3	125	0	0	—	− 0·60	*	*	*	*
	Cheadle Ⓜ	78	48	72·2	50·5	60·6	+ 3·1	130	0	0	—	− 0·73	*	*	*	*
	Shirley (near Solihull)	78	43	75·1	48·2	60·7	+ 0·9	131	0	1	0·01	?	*	*	*	*
	Churchstoke Ⓜ															
	Hereford Ⓜ	87	45	78·5	49·1	62·8	+ 2·6	146	0	2	0·05	− 0·47	*	*	*	*
	Cirencester	84	48	76·7	51·3	63·1	+ 4·0	148	0	1	0·01	− 0·68	78·7	+37·0	70	+33
	Oxford	80	47	75·9	50·7	62·4	+ 1·6	143	0	0	—	− 0·60	79·3	+37·3	71	+34
5. ENGLAND, S.	London	80	51	76·9	53·9	64·6	+ 2·4	158	0	0	—	− 0·55	76·7†	+37·9†	68†	+34†
	North Foreland	69	54	66·3	56·3	61·0	+ 0·9	133	0			?	*	*	*	*
	Dungeness	70	52	67·9	57·6	62·4	+ 1·5	143	0	0	—	− 0·45	*	*	*	*
	Hastings (St. Leonards)	75	53	70·8	55·5	62·6	+ 2·1	144	0	0	—	− 0·52	85·4	+35·4	77	+33
	Southampton	88	50	80·5	54·1	66·4	+ 4·7	171	0			− 0·60	82·1	+35·6	74	+33
	Hurst Castle	80	53	75·6	56·1	65·2	+ 3·8	162	0	0	—	− 0·54	*	*	*	*
	Shaftesbury Ⓜ	82	49	74·6	53·6	63·4	+ 4·8	150	0	0	—	− 0·69	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	80	43	75·0	50·2	61·7	+ 4·5	138	0	0	—	− 1·20	*	*	*	*
	Glasgow	81	45	72·6	49·5	60·3	+ 3·1	128	0	0	—	− 0·74	68·4	+33·4	58	+30
	Ardrossan	73	43	71·1	49·4	59·5	+ 1·7	123	0	0	—	− 0·62	*	*	*	*
	Glenlee Ⓢ	79	36	73·9	45·5	58·7	+ 1·2	117	0	0	—	− 0·90	*	*	*	*
	Gilcrux	74	42	71·4	48·5	59·2	+ 2·2	120	0	0	‡0·02	?	86·9	?	75	?
	Douglas (Isle of Man)	77	40	70·7	51·0	60·2	+ 3·0	127	0	0	—	− 0·65	87·0	+40·0	76	+35
7. ENGLAND, N.W.	Stonyhurst	76	43	72·4	49·7	60·3	+ 1·8	128	0	0	—	− 0·98	85·4	+45·2	74	+39
	Blackpool Ⓜ	77	45	74·7	49·3	61·1	+ 1·6	134	0	0	—	− 0·66	86·4	+44·8	75	+39
	Manchester (Prestwich)	78	44	73·5	50·6	61·3	+ 2·6	135	0	0	—	− 0·83	85·5	?	74	?
	Liverpool Obsy. (Bidston)	76	49	71·9	54·0	62·3	+ 2·6	142	0	0	—	− 0·65	*	*	*	*
	Llandudno Ⓜ	76	48	73·3	53·8	62·9	+ 3·2	146	0	0	—	− 0·58	*	*	*	*
	Holyhead	72	51	69·7	53·9	61·3	+ 2·6	135	0	0	—	− 0·52	*	*	*	*
8. ENGLAND, S.W.	Llandovey	88	43	81·9	50·0	64·8	+ 5·9	160	0	0	—	− 0·90	*	*	*	*
	Pembroke	74	50	71·0	56·3	63·1	+ 4·7	148	0	0	—	− 0·54	78·1	+28·3	70	+28
	Clifton	81	51	76·8	54·5	64·9	+ 4·5	160	0	0	—	− 0·67	*	*	*	*
	Arlington (N. Devon)	79	48	73·7	53·1	62·7	+ 4·3	145	0	0	—	− 1·05	*	*	*	*
	Cullompton Ⓜ	85	47	79·0	52·0	64·6	+ 4·0	158	0	0	—	− 0·72	78·0	+36·1	70	+33
	Falmouth	74	54	69·5	58·2	63·5	+ 3·6	151	0	1	0·18	− 0·54	81·6	+31·5	74	+30
	Plymouth	77	55	73·1	57·6	64·8	+ 3·7	160	0	0	—	− 0·63	85·5	+40·5	78	+37
	Prawle Point	74	55	69·4	57·0	62·8	+ 4·1	146	0	0	—	− 0·50	*	*	*	*
9. IRELAND, N.	Malin Head	70	49	66·6	54·1	59·9	+ 3·2	125	0	0	—	?	*	*	*	*
	Londonderry	82	45	79·1	52·6	64·9	+ 6·7	160	0	0	—	− 0·75	*	*	*	*
	Edenfel (Omagh)	80	45	74·7	51·3	62·2	+ 5·4	141	0	0	—	− 0·75	*	*	*	*
	Belmullet	78	50	72·3	55·7	63·4	+ 5·7	150	0	2	0·20	− 0·59	*	*	*	*
	Markree Castle	76	42	72·8	49·8	60·5	+ 3·0	130	0	2	0·04	− 0·81	70·9	+38·4	62	+34
	Armagh	77	43	72·9	48·6	59·9	+ 2·2	125	0	0	—	− 0·70	79·8	+44·3	69	+38
	Donaghadee	73	42	66·4	49·6	57·4	0·0	108	0	0	—	− 0·60	*	*	*	*
	Edgeworthstown	75	48	70·9	51·7	60·6	+ 3·3	130	0	0	—	− 0·78	*	*	*	*
10. IRELAND, S.	Dublin	74	46	69·8	53·8	61·2	+ 1·5	134	0	0	—	− 0·55	89·0	+50·5	79	+46
	Parsonstown	79	48	75·4	52·7	63·3	+ 5·0	149	0	1	0·05	− 0·57	72·4	+39·9	64	+35
	Kilkenny	76	42	73·3	50·7	61·2	+ 2·5	134	0	1	0·04	− 0·55	*	*	*	*
	Roche's Point	69	50	65·7	56·9	61·0	+ 1·5	133	0	2	0·06	− 0·64	*	*	*	*
	Valencia	77	48	71·1	56·6	63·4	+ 4·9	150	0	3	0·39	− 0·58	53·9	+16·1	48	+15
	Killarney	75	50	71·6	54·4	62·4	+ 4·2	143	0	2	0·17	?	*	*	*	*
	Foynes	78	50	73·0	53·0	62·3	+ 4·6	142	0	2	0·31	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	57	68·3	58·3	63·0	+ 3·1	147	0	1	0·08	− 0·45	51·6	?	47	?
	Jersey	80	54	74·9	58·3	66·0	+ 4·1	168	0	0	—	− 0·52	83·1	+30·7	76	+28

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

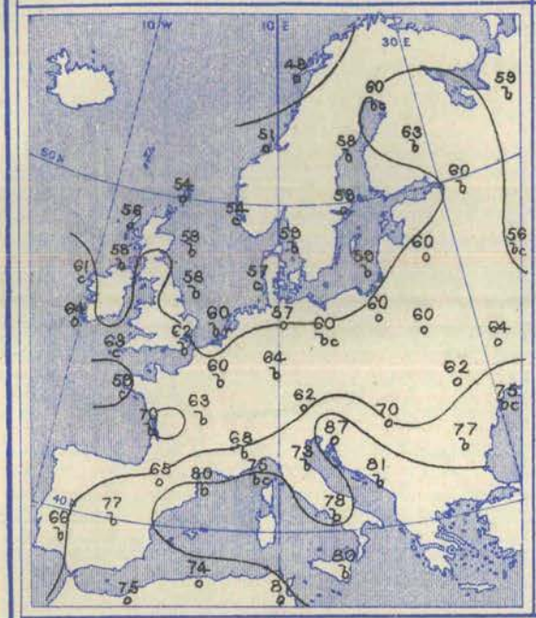
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page. ‡ Dew.

Sunday, 11th July.

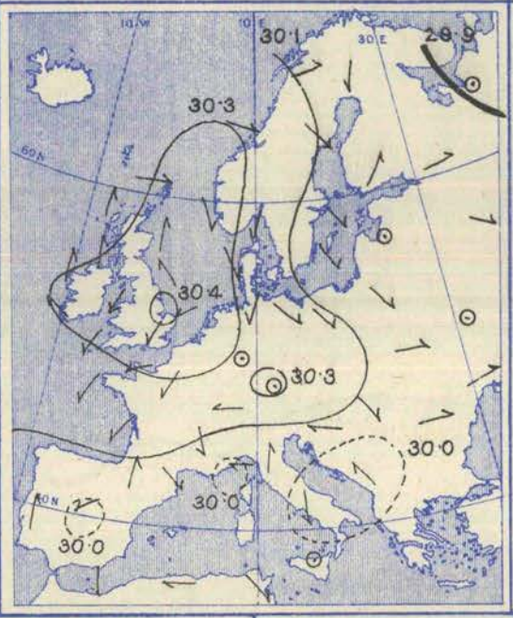
Temperature and Weather.

8 a.m.

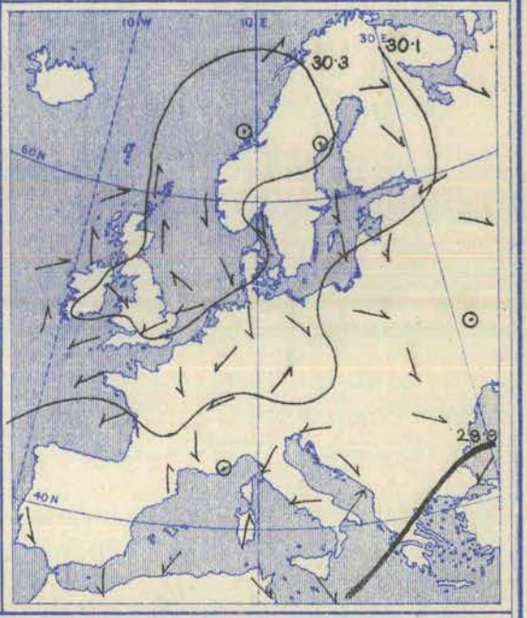


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull in the Shetlands and the west of Norway, as well as in Poland and Austria. No important change occurring over western Europe during day, but slight rain falling at Biarritz, and also at Bodö and Stockholm, and a large quantity at Kharkov.

Temperature risen in all the more western and northern parts of our Islands, as well as in France, Finland, and the Baltic Provinces; fallen in most other localities. Morning readings highest, 87° at Trieste, 86° at Barcelona, and 84° at Sanguinaires and Malta; above 75° over southern Europe generally. Lowest, 48° at Bodö, 51° at Christiansund, 54° at Skudesnaes and Sumburgh Head, and 56° at Stornoway and Wick. Rising during day to 70° and upwards in many parts of our Islands, and to 75° and upwards over the inland parts of England. Exceeding 90° at several of the Spanish, Italian, and southern French stations, and reaching 97° at Perpignan and Sanguinaires.

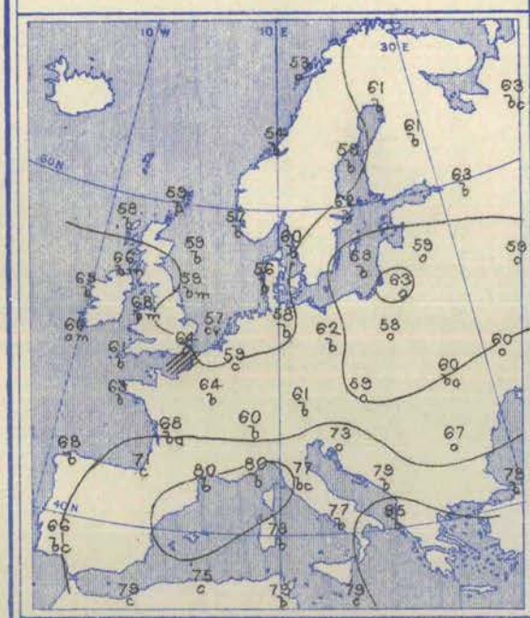
Wind moderate to strong from the Northward or North-Westward over Scandinavia, Denmark, and Germany; light from the North-Eastward or Eastward over the Netherlands, France, and the south and east of England, from the South-Eastward in the south of Ireland, and from the Southward over the northern parts of the United Kingdom. Light and variable over southern Europe as a whole. No important change occurring during day.

Barometer highest, 30·3 ins. to 30·4 ins. over nearly the whole of our Islands, the North Sea, the Netherlands, and the north-east of France; 30·1 ins. and upwards in an anticyclone embracing north-western and central Europe generally. Lowest, 29·9 ins. and less over northern Russia; 30·0 ins. and less in three shallow depressions—one lying over the southern parts of Italy and the Adriatic, another off the south of France, and the third over central Spain. No very important change occurring later, but shallow depressions in south partially filling up.

Monday, 12th July.

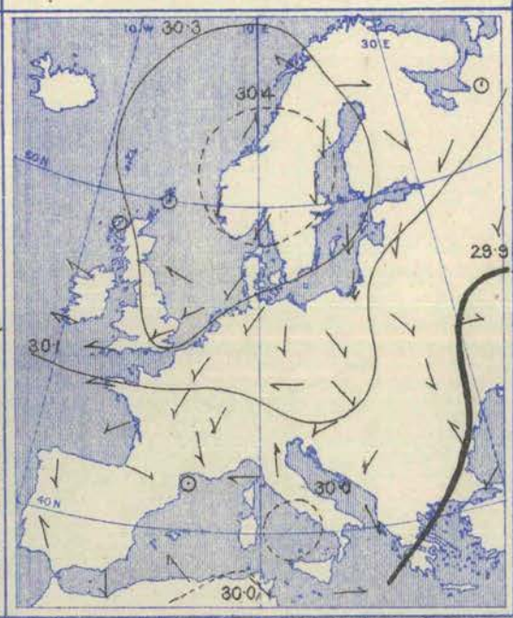
Temperature and Weather.

8 a.m.

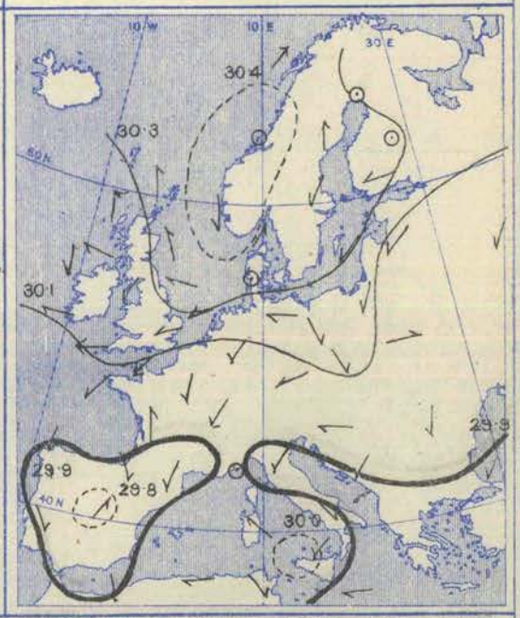


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but cloudy or dull at many of the English stations. Dull also over Austria, Poland, and the western and central parts of Russia. Sky clearing later over England, and weather remaining very dry over our Islands generally. Thunderstorms and heavy rain falling at some of the more central stations in France.

Temperature fallen in England, and also in many parts of Germany, Austria, and Italy; risen in most other localities. Morning readings highest, 85° at Brindisi, 83° at Barcelona, and 82° at Toulon and Leghorn; above 75° at many of the Mediterranean and Adriatic stations, and above 65° in some parts of our own western coasts. Lowest, (1) 53° at Bodö, and 54° at Christiansund; (2) 55° at Spurn Head and Loughborough; (3) 56° at Breslau and Cracow. Rising during day to 70° and upwards at several of our western and southern stations, and to 76° at Parsonstown; exceeding 90° in many parts of southern Europe, and reaching 97° at Madrid and Sanguinaires.

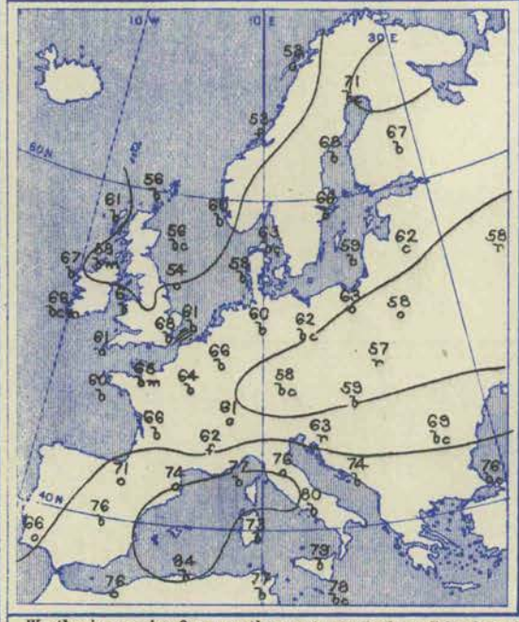
Wind Northerly over Sweden, western Russia, and Germany, and strong in force at some of the Baltic stations, with a gale at Wisby. North-Easterly or Easterly over Denmark, the Netherlands, the east and south of England, and the greater part of France; Easterly or South-Easterly in Ireland; calm or Southerly in the west and north of Scotland. Rather variable over Italy and the Spanish Peninsula. Subsequently becoming very variable in the west of France; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards over the central and southern parts of Scandinavia; 30·2 ins. and upwards in an anticyclone extending from northern Europe over the whole of our Islands, the Netherlands, and Germany. Lowest, 29·8 ins. and less (apparently) in a depression over the Black Sea. General fall of the barometer taking place over western Europe during day; shallow depression appearing over central Spain, and, apparently, over the Bay of Biscay also.

Tuesday, 13th July.

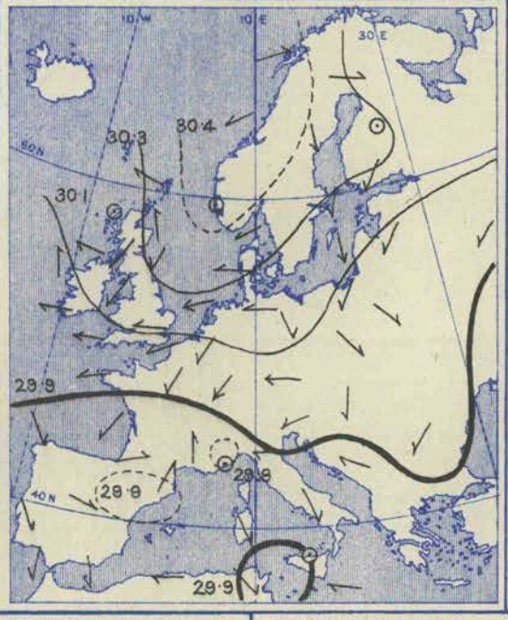
Temperature and Weather.

8 a.m.

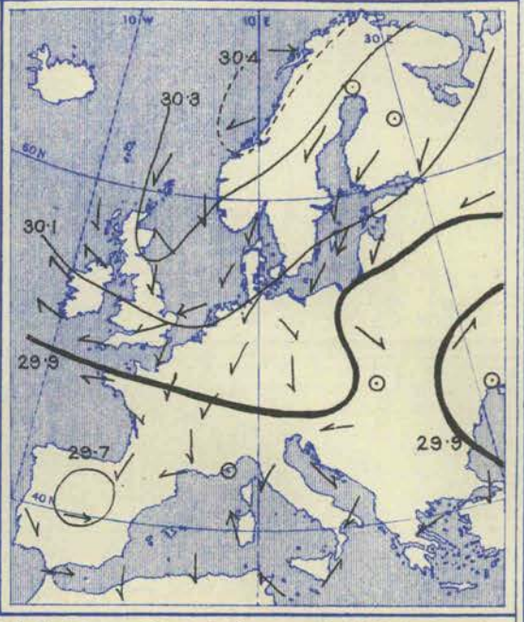


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull in the extreme south of France and the northern parts of Italy and the Adriatic, as well as over western and central Russia, with rain at Trieste, Cracow and Moscow. Heavy rain falling later over the south of France and northern Italy—as much as 2·1 ins. at Rome, and 1·1 ins. at Leghorn and Florence. Thunderstorm occurring at Nice and also at Moscow.

Temperature changed very irregularly. Morning readings highest, 84° at Algiers, 81° at Barcelona and Sfax, and 80° at Leghorn and Rome; above 75° in many parts of southern Europe, above 65° in the west of Ireland and the south-east of England, as well as in Sweden and Finland, and touching 71° at Haparanda. Lowest, 53° at Bodö and Christiansund, 54° at Leith and Shields, and 55° at Wick. Rising during day to between 70° and 75° at many of our western and northern stations, and to between 75° and 80° over the inland parts of England; exceeding 85° in many parts of southern Europe, and reaching 96° at Madrid.

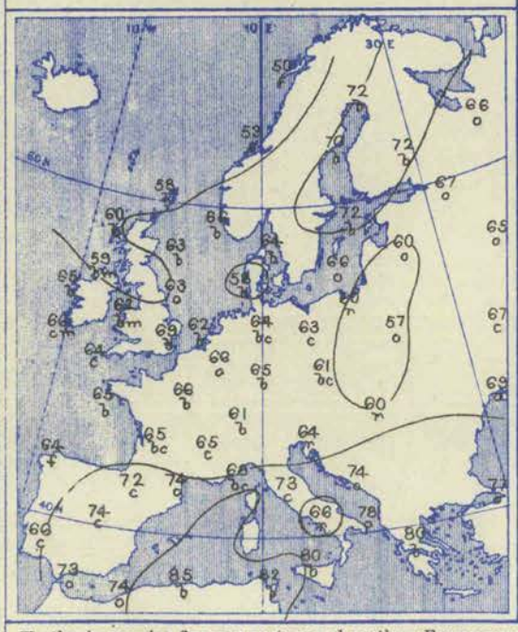
Wind Northerly in Sweden; North-Easterly over Denmark, Germany, the Netherlands, and the greater part of England and France, and fresh in force on our east and south coasts; Easterly or South-Easterly in Ireland; South-Easterly or Southerly in the north of Scotland; variable in the west of Norway. Northerly on the Portuguese coasts, Westerly or South-Westerly in the extreme south of France; variable in Italy. Northerly winds setting in later in the west of Norway; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in Norway; 30·1 ins. and upwards in an anticyclone extending from northern Europe over all but the extreme southern and south-western parts of our Islands. Lowest, 29·8 ins. and less in two small shallow depressions lying respectively over the north-east of Spain and in the neighbourhood of the Maritime Alps. General fall of barometer taking place over western Europe during day, but distribution of pressure remaining unchanged.

Wednesday, 14th July.

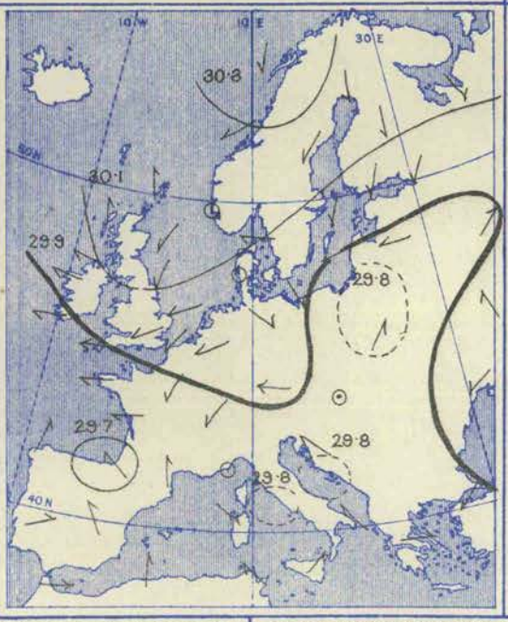
Temperature and Weather.

8 a.m.

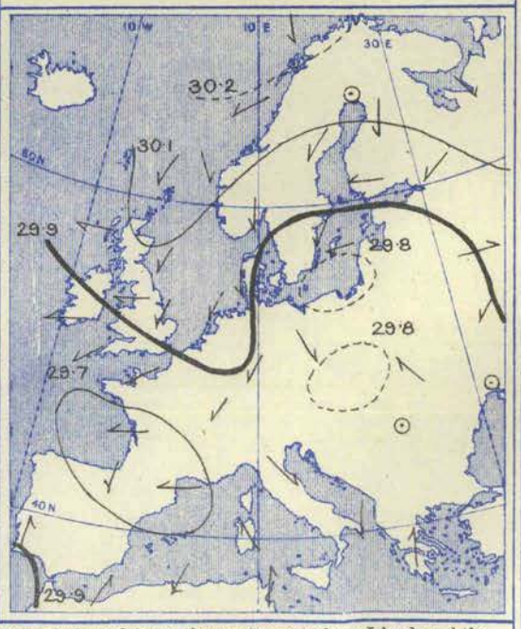


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over western and northern Europe generally, but foggy on the west coasts of Norway. Dull over the Baltic, eastern Germany, Austria, and the central and southern parts of Italy, with rain in several places. Thunderstorms and heavy rain occurring later at several of the French stations—as much as 1·4 ins. at Lorient. Considerable amounts falling also at Buda-Pesth and St. Petersburg. Weather in our Islands remaining fine and very dry.

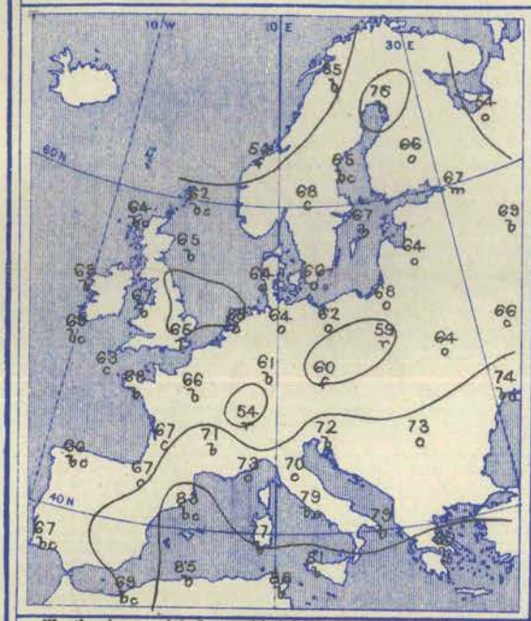
Temperature risen in the western and northern countries generally, but fallen in the south. Morning readings highest, 85° at Algiers, 82° at Tunis, 81° at Sanguinaires, and 80° at Palermo and Patras; above 70° in most parts of southern Europe, and also in many parts of Sweden and Finland. Lowest, 50° at Bodö, 53° at Christiansund and Shields, and 58° at Sumburgh Head. Rising during day to 75° and upwards at several of our own central and southern stations, and to 80° in London and at Cambridge. Exceeding 85° in many parts of southern Europe, and reaching 97° at Palermo.

Wind Easterly (North-Easterly to South-Easterly) over the greater part of our Islands and the neighbouring parts of the Continent, but Southerly in the extreme north of Scotland. Light to moderate from the Northward or North-Eastward over Scandinavia and northern Russia, and from the North-Westward or Westward in Germany. Variable over Austria, Italy, and the south of France; South-Westerly or Westerly in the western and southern parts of the Spanish Peninsula. No important change occurring during day.

Barometer highest, 30·3 ins. and upwards over the northern parts of Norway; 30·0 ins. and upwards in an anticyclone extending from northern Europe over all but the southern and south-western parts of the United Kingdom. Lowest, 29·7 ins. and less in a shallow depression over the north-east of Spain; 29·8 ins. and less in a well-marked disturbance over Poland and eastern Germany and also in two very shallow systems lying respectively to the eastward and westward of Italy. Spanish depression subsequently increasing in size and spreading slowly northwards; barometer falling over western Europe generally.

Thursday, 15th July.

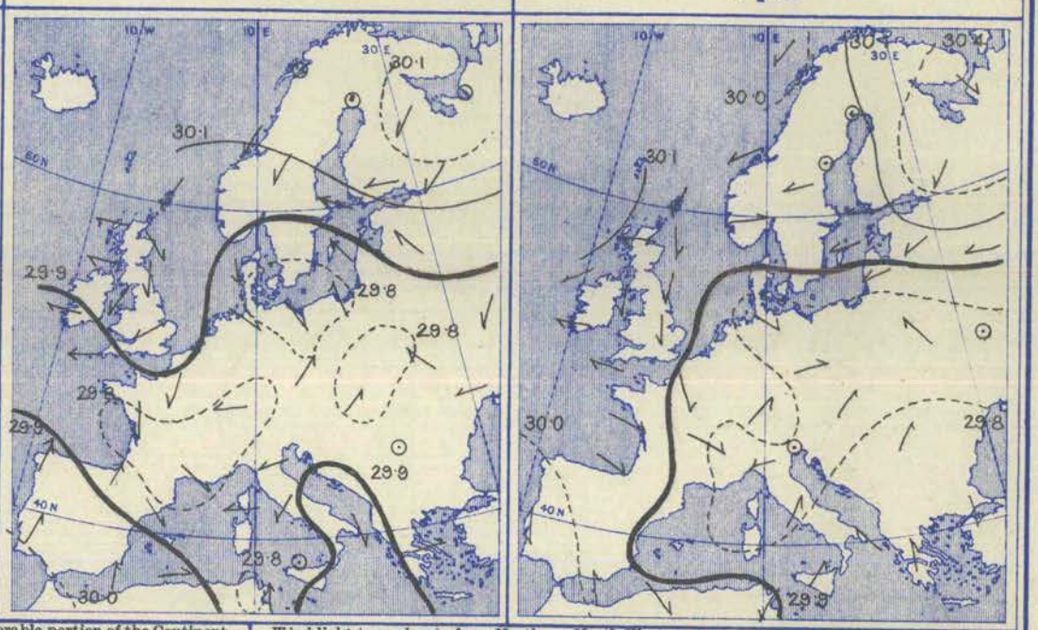
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over our Islands and a considerable portion of the Continent, but dull over the greater part of Denmark, Germany, and the Baltic, with rain at Warsaw. Dull also at several of the central and southern stations in France, with rain at Belfort, Limoges, and Toulon. Heavy rain falling later at Berlin and Lyons, as well as in northern Italy, and smaller amounts in some parts of Sweden and Denmark. Weather in our Islands remaining as a whole very fine and dry.

Temperature risen in the southern countries, but changed irregularly elsewhere. Morning readings highest, 88° at Tunis, 85° at Algiers, 83° at Barcelona, and 81° at Palermo and Malta; above 70° in most parts of southern and eastern Europe, and also in Lapland, the reading at Uleaborg being as high as 76°. Lowest, (1) 54° at Christiansund, and 55° at Bodö; (2) 54° at Cambridge, and 56° at Spurn Head. Rising during day to 75° and upwards in many parts of the United Kingdom, to 80° in London, and at Loughborough and Jersey, and to 81° at Leith. Exceeding 85° in many parts of southern Europe, and reaching 95° at Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.

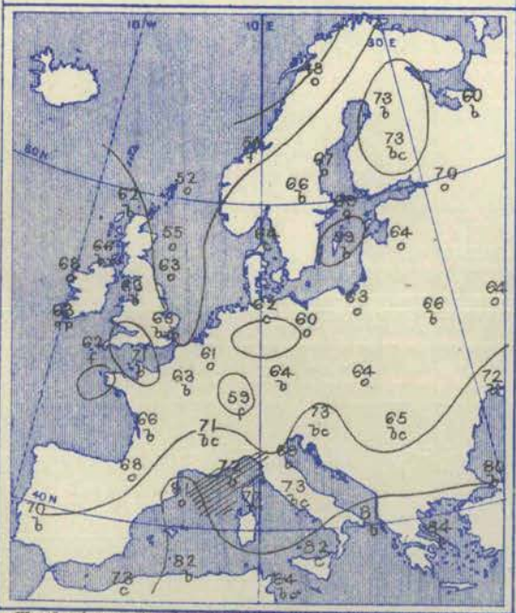


Wind light to moderate from North or North-West on our east coasts, but North-Easterly or Easterly over the western and southern parts of the United Kingdom and the north of France, and variable on our north-west coasts. Easterly or North-Easterly over Scandinavia and northern Russia; Northerly in Denmark, North-Westerly in north Germany, variable over south Germany, Austria, and Italy. Light from the Southward or South-Westward on the Portuguese coasts, and strong from South-West at Biarritz. North-Westerly winds setting in later in the west of France; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards over northern Russia; 30·0 ins. and upwards in an anticyclone extending thence over Scandinavia and all the more northern parts of the United Kingdom. Lowest, 29·8 ins. and less in four shallow depressions—one lying over Denmark and north Germany, another over eastern Austria, the third over the extreme south of Russia, and the fourth over the south of France. New high pressure system appearing later over the Spanish Peninsula; depressions coalescing and forming one large area covering a considerable portion of central and southern Europe.

Friday, 16th July.

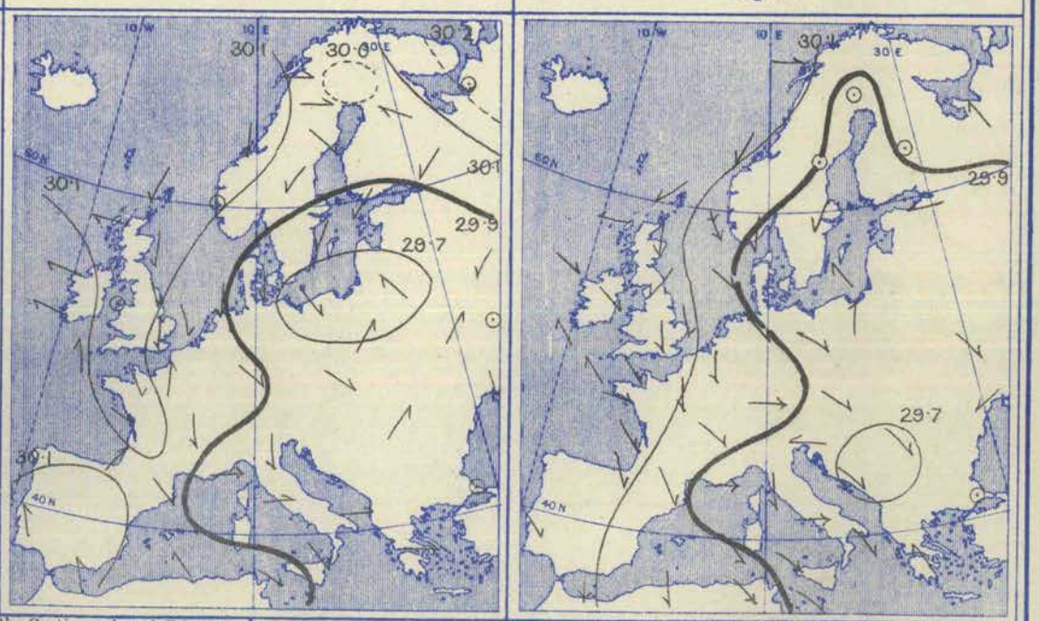
Temperature and Weather. 8 a.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull in the east of Great Britain, and also in the west and south of Ireland, with passing showers at Valencia. Dull also over Germany, the south of Sweden, and western and central Russia, with rain at Prague and Wisby, and a thunderstorm at Moscow. Rain falling later in the west and south of Ireland generally, and in Austria, Germany, Denmark, and the south of Sweden—heavily at Berlin, and also at Lesina. Weather remaining very dry over Great Britain.

Temperature fallen in our Islands and the neighbouring parts of the Continent, but changed irregularly elsewhere. Morning readings highest, 84° at Brindisi, Athens, and Sfax, 82° at Palermo and Algiers, and 81° at Barcelona; above 70° over southern Europe generally, as well as at some of the English Channel stations, and in parts of Finland. Lowest, 48° at Bodö, 52° at Christiansund and Sumburgh Head, and 53° at Shields. Daily maxima below 60° on some parts of our own north-east coasts, but thermometer exceeding 75° at many of our central and southern stations, and reaching 80° at Oxford and Hurst Castle. Exceeding 85° in most parts of southern Europe, and reaching 93° at Brindisi.

Barometer and Wind. 8 a.m. and 6 p.m.

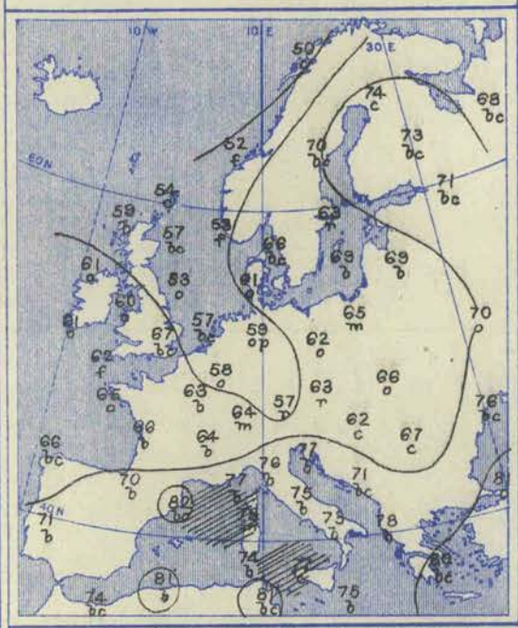


Wind light to moderate from the North-Eastward in Finland and the south of Scandinavia, from the Northward or North-Westward over Denmark, the eastern parts of Great Britain, the Netherlands, and western Germany, and from the Westward over France and south Germany; Southerly or South-Easterly over the Baltic Provinces. Light from the South-Eastward in the extreme west and south-west of our Islands. Variable over northern Italy, but Westerly or North-Westerly in the south of that country, and also in Greece. Subsequently veering to the North-Westward or Northward in France; no important change occurring elsewhere.

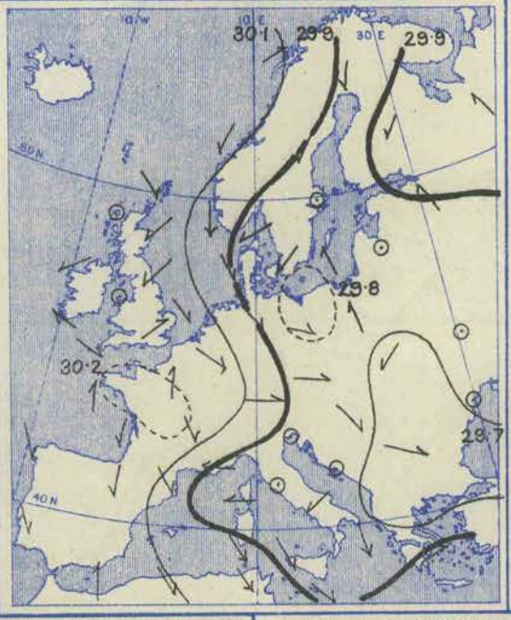
Barometer highest, 30·1 ins. and upwards in a large anticyclone embracing the whole of Great Britain, the west of Norway, and a considerable portion of the west of France, as well as in another system over the Spanish Peninsula. Lowest, 29·7 ins. and less in a well-marked depression over north Germany and the Baltic; 29·8 ins. and less in a shallow system over the south of Russia. The two anticyclones joining later, and barometer rising slightly in most parts of our Islands and France.

Saturday, 17th July.

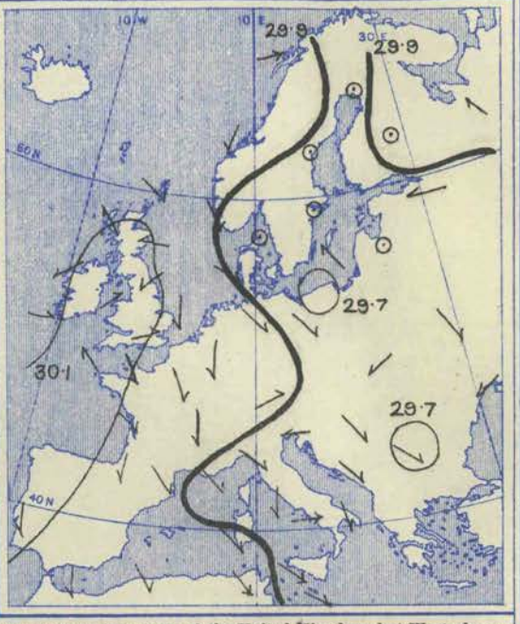
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the United Kingdom generally, with fog or mist on many parts of our western coasts, but fine in the north of Scotland. Fine over the greater part of the Continent, but foggy in the west of Norway, and dull in Denmark and Germany, with rain at Prague and Munich, and passing showers at Cuxhaven. A little rain falling at night in the extreme west and south-west of our Islands, and also in the north-west of France; larger amounts reported in many parts of Germany and Austria.

Temperature fallen in our Islands and the Netherlands, and also in the south of Italy; risen or changed irregularly elsewhere. Morning readings highest, 82° at Barcelona, 81° at Algiers, Tunis, and Constantinople, and 80° at Athens; above 70° over southern Europe generally, and also in Finland. Lowest, 50° at Bodö, 52° at Christiansund, 53° at Skudesnaes and Shields, and 54° at Nairn and Spurn Head. Rising during day to 70° at Stornoway, to a little above that point over the south of England generally, and to 79° in London. Exceeding 85° in many parts of southern Europe, and reaching 102° at Palermo.

Wind light and variable in all the more western parts of the United Kingdom, but Westerly or South-Westerly at the English Channel stations, and Northerly or North-Westerly on our east coasts, as well as on the eastern shores of the North Sea. North-Westerly or Westerly in Germany; variable in Austria and northern Italy; North-Westerly over the Spanish Peninsula and the southern parts of France and Italy. No important change occurring over western Europe during day.

Barometer highest, 30·2 ins. and upwards over the north-western parts of Spain; 30·1 ins. and upwards in an anticyclone covering the Spanish Peninsula, France, the United Kingdom, and the west of Norway. Lowest, 29·7 ins. and less in a large shallow area over south-eastern Europe; 29·8 ins. and less in another shallow depression over north-eastern Germany. Slight, but general, fall of barometer taking place over western Europe during day, and anticyclone becoming somewhat restricted, both in size and height.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Soon after the commencement of this period the large anticyclone, which had extended over western Europe at the close of the previous week, began to move steadily north-eastwards, while complex low-pressure systems appeared over the southern parts of the Continent, and spread northwards over France and Germany. These disturbances occasioned thunderstorms and heavy falls of rain in most of the central and southern countries, but in the north and north-west the weather was exceedingly fine and dry, the only effect of the southern depressions being to occasion freshening Easterly or North-Easterly winds on our own south and east coasts.

After the middle of the week the depressions moved eastwards, and the anticyclone in the north again extended southwards over our Islands. The winds now became somewhat variable, but the weather over the United Kingdom remained fair, excepting in the west and south of Ireland and the extreme south-west of England, where the conditions seem to have been influenced by some low-pressure systems moving out in the Atlantic. At the close of the week the anticyclone showed some signs of breaking up.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 164.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	78·6	+46·8	67	+40	EASTBOURNE	82·7	+33·2	75	+30
OSWALDKIRK (Yorkshire)	67·9	+33·4	60	+30	VENTNOR	81·5	?	73	?
WORKSOP	73·2	+38·4	65	+34	SOUTHPORT	85·9	?	75	?
THURCASTON (Leicestershire)	81·2	+44·5	72	+40	COLWYN BAY	89·7	?	79	?
MARGATE	66·9	+24·9	60	+22	NEWQUAY	84·5	+34·7	77	+33
WESTBOURNE (Sussex)	86·0*	+39·2	77*	+35	TORQUAY	82·9*	+35·9	75*	+31
BRIGHTON	84·4	+34·2	76	+30	GUERNSEY	78·2*	+24.8	72*	+33

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 29.] *Third Series.* WEEK ENDING SATURDAY, JULY 24TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 170.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	81	43	67·8	51·2	58·9	4 above	118	+35	0	0	991	+ 88	615	- 8
	1. SCOTLAND, EAST -	80	43	68·4	51·9	59·6	3 above	123	+22	0	0	1134	+ 8	661	+ 12
	2 ENGLAND, N.E. -	80	44	66·5	52·5	59·0	0 (average)	119	+ 7	0	0	1231	+ 70	471	- 78
	3. ENGLAND, EAST -	86	42	73·9	52·3	62·4	2 above	143	+19	0	0	1561	+165	493	-124
	4. MIDLAND COUNTIES	84	44	73·8	53·1	62·7	3 above	145	+25	0	0	1560*	+133	504	-115
	5. ENGLAND, SOUTH -	83	51	72·1	57·1	64·1	3 above	155	+25	0	0	1735	+215	297	-180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	79	40	68·6	52·2	59·8	3 above	125	+22	0	0	1245*	+ 50	441	- 21
	7. ENGLAND, N.W. -	80	50	69·6	55·0	61·8	3 above	139	+26	0	0	1401	+126	367	- 92
	8. ENGLAND, S.W. -	81	51	68·6	57·0	62·4	3 above	143	+25	0	0	1681	+227	223	-138
	9. IRELAND, NORTH -	79	45	67·6	53·9	60·3	3 above	128	+24	0	0	1314	+ 22	403	+ 8
	10. IRELAND, SOUTH -	75	50	68·1	56·9	62·1	3 above	141	+28	0	0	1629	+142	242	- 57
	—CHANNEL ISLANDS-	79	57	70·5	59·1	64·4	3 above	157	+29	0	0	1930	+299	68	- 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 170.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	2	6	2 less	121	- 9	21·2	- 3·1	41	+14	34	+11	826*	+114	31	+ 4
	1. SCOTLAND, EAST -	4	9	2 more	112	+ 6	15·7	0·0	41	+ 7	35	+ 5	831	+ 24	32	+ 1
	2. ENGLAND, N.E. - -	2	9	2 more	102	+ 3	12·4	- 0·4	47	+11	41	+10	878	+ 86	34	+ 4
	3. ENGLAND, EAST -	3	2	4 less	101	+ 5	12·2	- 0·6	59	+15	53	+14	973	+ 49	37	+ 1
	4. MIDLAND COUNTIES	3	8	1 more	100	+ 5	14·9	+ 0·7	45	+ 6	40	+ 6	922	+ 88	36	+ 4
	5. ENGLAND, SOUTH -	2	4	2 less	92	+ 1	15·2	+ 1·1	50	+ 7	46	+ 6	1018	+ 55	39	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	4	6	3 less	121	+10	22·6	- 1·2	39	+ 2	34	+ 3	868	+ 9	33	+ 1
	7. ENGLAND, N.W. -	2	2	6 less	114	+12	16·7	+ 0·6	41	0	36	0	939	+ 63	35	+ 3
	8. ENGLAND, S.W. - -	5	11	3 more	116	+13	22·5	+ 3·9	26	-19	24	-17	1008	- 10	39	0
	9. IRELAND, NORTH -	3	11	3 more	130	+10	22·2	+ 3·9	19	-13	17	-11	791	- 12	30	- 1
	10. IRELAND, SOUTH -	4	11	3 more	123	+14	23·4	+ 3·6	18	-16	16	-14	844	- 57	32	- 3
	— CHANNEL ISLANDS-	3	2	4 less	126	+17	18·6	+ 3·0	53	- 1	49	- 1	1053	- 82	41	- 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this week has been very changeable—fine and dry conditions having alternated with heavy local rains and sharp thunderstorms.

Temperature exceeded the mean in all districts excepting England N.E. ; the excess ranging from 3° in most districts to 4° in Scotland N. The highest of the maxima were registered either on the 18th or 24th, and ranged from 86° in England E., 84° in the Midland counties, and 83° in England S. to 75° in Ireland S. The lowest of the minima were recorded during the earlier days of the period, and varied from 40° in Scotland W. and 42° in England E. to 51° in England S. and S.W., and to 57° in the Channel Islands.

Rainfall varied greatly in different parts of the Kingdom, and even in different parts of the various districts. On the north side of London there was a particularly heavy fall of hail and rain on the 21st. The totals were rather more than the mean over Ireland, England S.W., the Midland counties, England N.E., and Scotland E., but less than the mean elsewhere.

Bright Sunshine exceeded the mean at most of the northern, eastern, and southern stations, but showed a deficiency in most of the western districts. The percentage of the possible duration ranged from 53 in England E., 49 in the Channel Islands, and 46 in England S.W., 17 in Ireland N. and 16 in Ireland S.

Barometer and Wind.—During the earlier half of the week shallow complex depressions passed over the central and southern parts of the Kingdom from the eastward, the wind consequently being South-Westerly to Westerly in the south, and Easterly to North-Easterly in the north. Towards the end of the period these systems had disappeared, but a fall of the barometer and a Southerly wind showed that other disturbances were advancing towards our western and north western coasts.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 169 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	70	46	60·6	49·6	54·7	+ 1·6	89	0	1	0·78	+ 0·18	*	*	*	*
	Stornoway	75	50	66·6	52·0	58·8	+ 4·3	118	0	3	0·37	− 0·35	46·6	+13·6	39	+12
	Wick	73	43	65·6	48·9	56·7	+ 1·5	103	0	2	0·26	− 0·32	*	*	*	*
	Lairg Ⓢ	81	44	73·9	48·8	60·5	+ 6·3	130	0	3	0·42	− 0·33	*	*	*	*
	Glencarron Ⓢ	77	47	70·6	51·9	60·6	+ 6·1	130	0	3	0·55	− 0·87	*	*	*	*
	Fort Augustus Ⓢ	71	49	67·6	53·6	60·1	+ 3·8	127	0	2	0·36	− 0·40	28·7	+ 8·4	25	+ 8
	Fort William Ⓢ	79	49	70·0	53·4	61·1	+ 4·6	134	0	3	1·74	+ 0·49	46·1	+17·6	39	+15
1. SCOTLAND, E.	Nairn	75	44	68·6	51·3	59·4	+ 1·9	122	0	3	0·11	− 0·57	*	*	*	*
	Aberdeen	71	44	66·1	51·7	58·4	+ 1·4	115	0	3	0·94	+ 0·22	44·0	+ 7·3	38	+ 7
	Braemar Ⓢ	75	43	68·9	51·7	59·7	+ 5·2	124	0	5	1·09	+ 0·43	37·3†	+ 5·3†	32†	+ 5†
	Ochtertyre Ⓢ	80	44	73·3	52·7	62·3	+ 4·1	142	0	5	0·60	− 0·20	*	*	*	*
	Leith	76	45	67·3	52·0	59·1	+ 0·5	120	0	4	1·40	+ 0·72	*	*	*	*
	Marchmont Ⓢ	75	47	65·9	51·9	58·4	+ 1·9	115	0	4	1·25	+ 0·40	42·3	+ 5·2	37	+ 5
2. ENGLAND, N.E.	Alnwick Castle	69	49	62·7	51·0	56·4	− 0·8	101	0	3	3·04	+ 2·35	*	*	*	*
	Durham	80	44	69·4	52·3	60·3	+ 1·4	128	0	4	0·82	+ 0·07	39·3	+ 3·6	34	+ 3
	Shields	74	50	64·6	53·0	58·4	+ 0·6	115	0	3	0·98	+ 0·33	*	*	*	*
	Scarborough Ⓜ	74	48	63·6	51·7	57·2	− 2·0	106	0	2	0·14	− 0·56	*	*	*	*
	York	80	46	72·7	52·3	61·8	+ 2·2	139	0	1	0·11	− 0·57	56·0	+19·0	50	+18
	Spurn Head	72	51	65·7	54·4	59·7	0·0	124	0	1	0·09	− 0·35	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	86	42	76·1	50·8	62·6	+ 2·0	144	0	3	0·41	− 0·34	60·1	+17·9	54	+17
	Yarmouth	70	50	66·0	54·1	59·6	− 1·0	123	0	2	0·06	− 0·62	*	*	*	*
	Geldeston	83	48	75·6	51·8	62·9	+ 2·5	146	0	3	0·37	− 0·27	63·8	+18·3	57	+16
	Cambridge	85	46	77·7	52·6	64·3	+ 2·9	156	0	4	0·21	− 0·41	60·1	+17·6	54	+16
	Rothamsted	79	49	74·2	52·3	62·8	+ 2·4	146	0	1	0·09	− 0·57	51·0	+ 5·7	46	+ 5
4. MIDLAND COUNTIES	Harrogate															
	Bawtry (Hesley Hall)	81	44	74·3	51·0	61·8	+ 1·6	139	0	3	0·21	− 0·44	*	*	*	*
	Loughborough	82	49	75·9	52·4	63·3	+ 1·9	149	0	3	0·13	− 0·53	*	*	*	*
	Stamford (Duddington)	84	44	76·3	50·1	62·3	+ 1·1	142	0	3	0·04	− 0·61	*	*	*	*
	Cheadle Ⓜ	77	49	71·0	52·5	61·1	+ 3·2	134	0	3	0·22	− 0·53	*	*	*	*
	Shirley (near Solihull)	79	50	72·8	52·9	62·2	+ 2·1	141	0	3	0·25	?	*	*	*	*
	Churchstoke Ⓜ	81	48	72·0	54·4	62·6	+ 4·4	144	0	3	0·61	− 0·01	41·6	+ 3·3	37	+ 3
	Hereford Ⓜ	83	51	74·3	55·2	64·1	+ 3·9	155	0	5	2·03	+ 1·47	*	*	*	*
	Cirencester	80	50	72·9	54·4	63·0	+ 3·9	147	0	4	1·32	+ 0·58	38·9	− 2·3	35	− 2
	Oxford	80	51	74·7	54·9	64·1	+ 3·2	155	0	3	2·28	+ 1·64	45·1	+ 3·3	41	+ 3
5. ENGLAND, S.	London	83	51	78·1	56·4	66·5	+ 4·1	172	0	1	0·60	+ 0·02	44·1†	+ 5·3†	40†	+ 5†
	North Foreland	78	56	70·7	57·4	63·6	+ 2·9	151	0	1	0·13	?	*	*	*	*
	Dungeness	72	53	69·6	57·1	62·9	+ 1·4	146	0	2	0·45	− 0·03	*	*	*	*
	Hastings (St. Leonards)	76	56	71·5	57·4	64·0	+ 3·1	154	0	0	—	− 0·60	64·5	+14·6	59	+14
	Southampton	78	55	74·0	56·7	64·8	+ 2·8	160	0	2	0.94	+ 0·26	47·5	+ 1·4	44	+ 2
	Hurst Castle	74	57	70·4	58·9	64·3	+ 2·6	156	0	3	0·24	− 0·34	*	*	*	*
	Shaftesbury Ⓜ	78	52	70·6	56·1	62·9	+ 4·2	146	0	3	0·73	+ 0·02	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	79	48	70·7	53·2	61·3	+ 4·3	135	0	3	0·77	− 0·48	*	*	*	*
	Glasgow	75	50	68·5	53·1	60·3	+ 3·0	128	0	4	0·96	+ 0·13	38·6	+ 6·6	34	+ 7
	Ardrossan	77	49	67·9	52·9	59·9	+ 2·0	125	0	3	0·49	− 0·22	*	*	*	*
	Glenlee Ⓢ	76	40	70·4	48·1	58·5	+ 1·0	116	0	3	0·37	− 0·64	*	*	*	*
	Gilcrux	74	46	67·6	52·3	59·4	+ 2·4	122	0	5	0·39	?	36·8	?	32	?
	Douglas (Isle of Man)	71	46	66·5	53·3	59·4	+ 2·2	122	0	3	0·43	− 0·32	41·5	− 3·3	37	− 2
7. ENGLAND, N.W.	Stonyhurst	77	50	69·2	52·9	60·5	+ 2·0	130	0	2	0·37	− 0·71	34·8	− 3·4	31	− 2
	Blackpool Ⓜ	78	51	72·4	53·7	62·4	+ 2·9	143	0	1	0·37	− 0·41	42·1	+ 2·0	37	+ 2
	Manchester (Prestwich)	77	50	70·7	52·8	61·1	+ 2·0	134	0	2	0·25	− 0·67	40·8	?	36	?
	Liverpool Obsy. (Bidston)	80	55	71·4	56·7	63·5	+ 3·7	151	0	1	0·07	− 0·66	*	*	*	*
	Llandudno Ⓜ	76	56	69·7	58·2	63·6	+ 3·3	151	0	1	0·15	− 0·49	*	*	*	*
	Holyhead	69	54	64·3	55·7	59·7	+ 0·8	124	0	3	0·11	− 0·48	*	*	*	*
8. ENGLAND, S.W.	Llandovey	81	? 54	? 72·6	? 56·9	? 64·2	? + 5·2	? 155	0	5	1·36	+ 0·37	*	*	*	*
	Pembroke	64	54	63·0	56·3	59·4	+ 0·7	122	0	5	0·99	+ 0·34	17·0	− 28·1	15	− 25
	Clifton	80	54	71·6	58·8	64·8	+ 4·3	160	0	3	1·31	+ 0·50	*	*	*	*
	Arlington (N. Devon)	74	52	67·3	53·9	60·1	+ 1·7	127	0	6	1·52	+ 0·32	*	*	*	*
	Cullompton Ⓜ	79	54	70·6	56·1	62·9	+ 2·1	146	0	5	1·15	+ 0·44	22·4	− 16·8	21	− 15
	Falmouth	73	57	70·1	59·4	64·4	+ 3·9	157	0	5	0·25	− 0·53	35·7	− 12·6	33	− 11
	Plymouth	70	56	67·5	57·9	62·4	+ 1·1	143	0	5	0·88	+ 0 16	22·8	− 20·9	21	− 19
	Prawle Point	70	51	65·9	56·4	60·8	+ 1·5	132	0	5	0·98	+ 0·37	*	*	*	*
9. IRELAND, N.	Malin Head	70	53	63·9	54·3	58·8	+ 1·7	118	0	2	0·83	?	*	*	*	*
	Londonderry	79	51	71·7	54·5	62·5	+ 4·2	144	0	3	1·08	+ 0·21	*	*	*	*
	Edenfel (Omagh)	74	50	69·1	54·3	61·2	+ 4·4	134	0	3	2·28	+ 1·43	*	*	*	*
	Belmullet	70	50	66·4	? 55·4	? 60·5	? + 2·8	? 130	0	4	0·36	− 0·54	*	*	*	*
	Markree Castle	75	45	68·2	54·4	60·8	+ 3·8	132	0	4	1·80	+ 0·88	14·4	− 14·6	13	− 13
	Armagh	72	47	68·6	53·1	60·3	+ 2·6	128	0	4	1·10	+ 0·37	24·2	− 7·7	21	− 7
	Donaghadee	72	47	65·3	51·1	57·7	+ 0·2	110	0	2	0·43	− 0·27	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	75	54	67·5	56·2	61·5	+ 1·8	137	0	4	0·69	+ 0·03	14·9	− 21·3	13	− 19
	Parsonstown	72	53	69·6	56·4	62·5	+ 4·0	144	0	5	0·93	+ 0·17	14·5	− 16·3	13	− 14
	Kilkenny	72	54	68·3	56·1	61·8	+ 3·1	139	0	5	1·11	+ 0·49	*	*	*	*
	Roche's Point	70	55	66·1	58·6	62·1	+ 2·4	141	0	5	1·22	+ 0·44	*	*	*	*
	Valencia	69	53	66·6	57·1	61·5	+ 2·8	137	0	4	1·28	+ 0·30	24·2	− 10·6	22	− 9
	Killarney	71	50	69·1	57·0	62·6	+ 4·2	144	0	4	1·42	?	*	*	*	*
	Foynes	72	53	69·5	57·0	62·8	+ 5·0	146	0	3	0·71	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	74	58	69·6	59·1	64·0	+ 3·5	154	0	3	0·23	− 0·37	56·4	?	52	?
	Jersey	79	57	71·4	59·1	64·8	+ 2·3	160	0	3	0·19	− 0·42	50·1	− 1·8	46	− 2

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

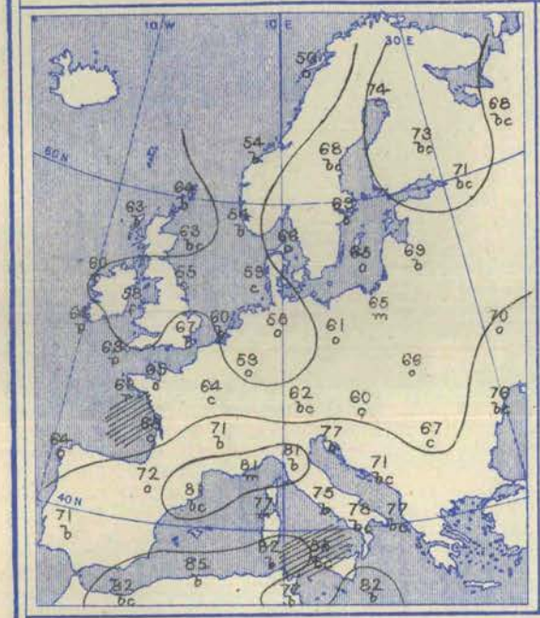
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 18th July.

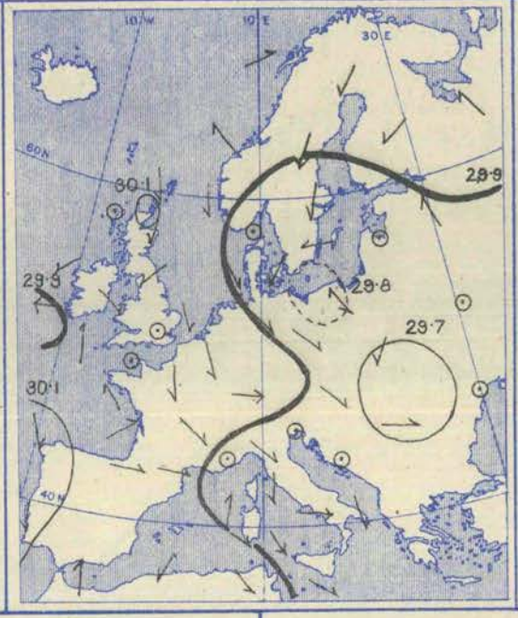
Temperature and Weather.

8 a.m.

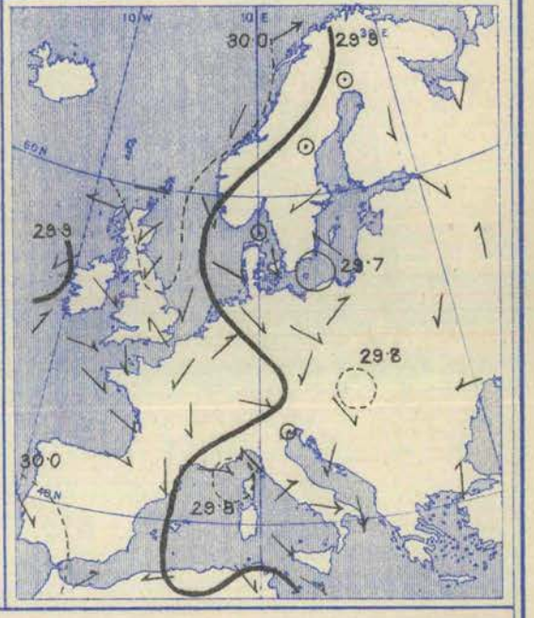


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over almost the whole of Europe, including Great Britain, but dull and rainy over Ireland and Brittany, also over the Baltic and north Germany, as well as over several parts of Hungary. Rain falling later on our extreme west and south-west coasts, as well as over Scandinavia, Denmark, and the extreme north of Germany; fall at Copenhagen nearly 0·9 ins.

Temperature fallen over England, risen over our north-western districts. Morning readings highest, 87° at Florence, 85° at Algiers, 82° at Cagliari, and exceeding 80° at several other Mediterranean stations; 79° to 76° in the south of Russia, 71° at St. Petersburg. Lowest, 50° at Bödo, 54° at Christiansund and Skudesnaes, as well as at Loughborough, 55° at Oxford. Rising later to between 65° and 70° over Ireland, and to between 78° and 80° over England, to 79° at Paris, 88° at Nice, Leghorn, and Rome, 91° at Palermo, and 97° at several Algerian stations.

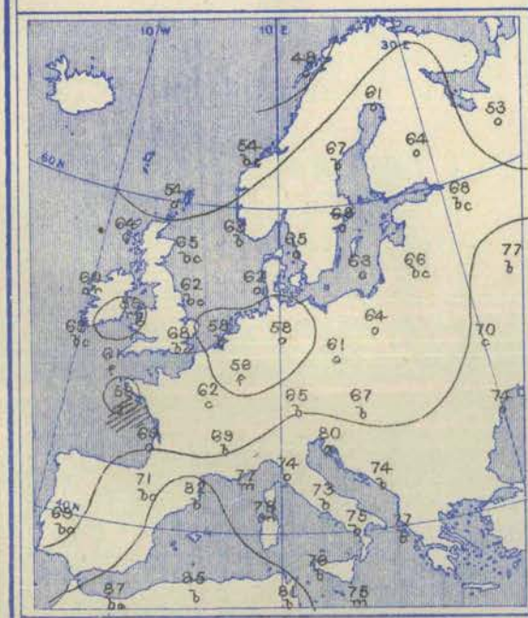
Wind very light and anticyclonic over Great Britain, France and Spain, but South-Easterly to Easterly, and freshening, over Ireland, moderate and cyclonic over the Baltic, Scandinavia, and central Europe. Shifting later to South-West in the south of Ireland, and becoming Southerly in Wales and the south-west of England; little change elsewhere.

Barometer highest, 30·1 ins. and more to 30·0 ins. in a broad band covering the Spanish Peninsula, the Bay of Biscay, France, and almost the whole of the British Islands. Lowest (1), 29·7 ins. and less over Hungary and the south-west of Russia; (2) below 29·8 ins. at and in the neighbourhood of Swinemunde, and (3) below 29·9 ins. off the south-west coast of Ireland. Falling a little later both at our western stations and over France and the Baltic.

Monday, 19th July.

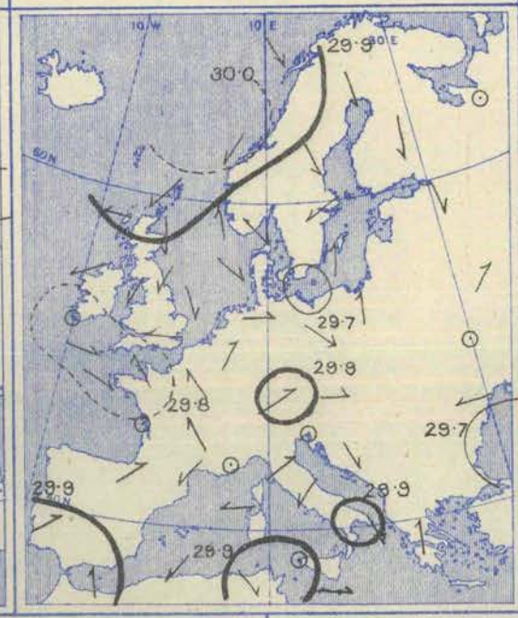
Temperature and Weather.

8 a.m.

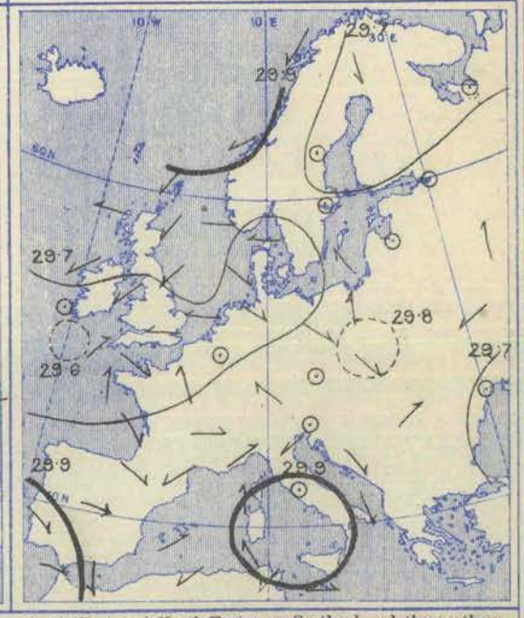


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in most places, but very cloudy and unsettled over the western and southern parts of the British Islands, as well as over the north of Russia, the greater part of the Baltic, and central Europe, where the sky was overcast, and rain and mist were reported locally. Rain later over France and England and the southern half of Ireland, as well as in many parts of Scandinavia, and slight showers in some parts of Scotland; thunderstorms occurring in the south of England, and several parts of France, and an inch of rain falling in Buda-Pesth

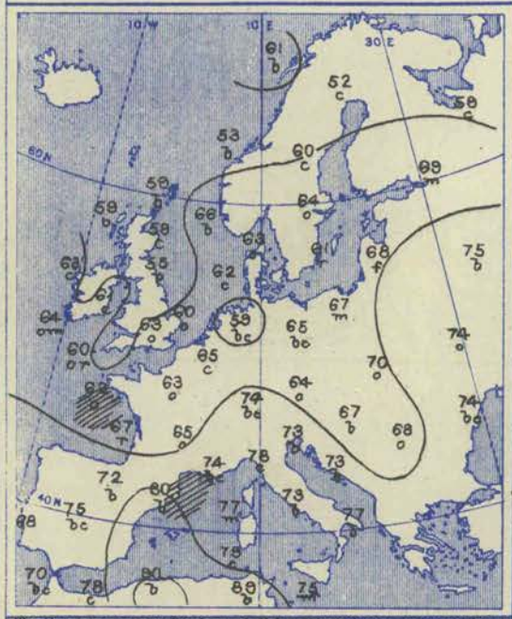
Temperature risen over Great Britain and the south of Scandinavia; fallen rapidly over the north of Russia and at Sumburgh Head. Highest, (1) 85° at Algiers, 81° at Tunis, and exceeding 70° over all the southern and south-eastern parts of Europe; 77° at Moscow, 71° at Karlstad, 68° in London. Lowest, 48° at Bodö, 53° at Archangel, 54° at Sumburgh Head and at Münster, 56° at Brussels, 58° at Spurn Head. Rising later to between 70° and 79° over many parts of Scotland and England; to 79° at Wiesbaden and Paris, to 82° at Belfort, 100° at Perpignan, and 108° at Biskera.

Wind moderate from between North-West and North-East over Scotland and the northern parts of Scandinavia, light and extremely variable elsewhere, but mainly cyclonic (1) over our south-western districts and the north-west of France, and (2) over the Baltic, the south of Scandinavia, and north Germany. Becoming still more variable over the southern parts of the British Islands later, but remaining light in force.

Barometer highest, (1) 30·0 ins. and more to 29·9 ins. over the north-west of Norway and the northern part of Scotland; (2) 29·9 ins. and more over the south-western half of Spain and over Morocco. Lowest, 29·7 ins. in two depressions—one over the Baltic, and the other over the Black Sea; below 29·8 ins. in a third over the south-west of our Islands and the north-west of France, and in a fourth over the east of Lapland and north of Finland. Falling over western Europe all day, and distribution becoming very complex.

Tuesday, 20th July.

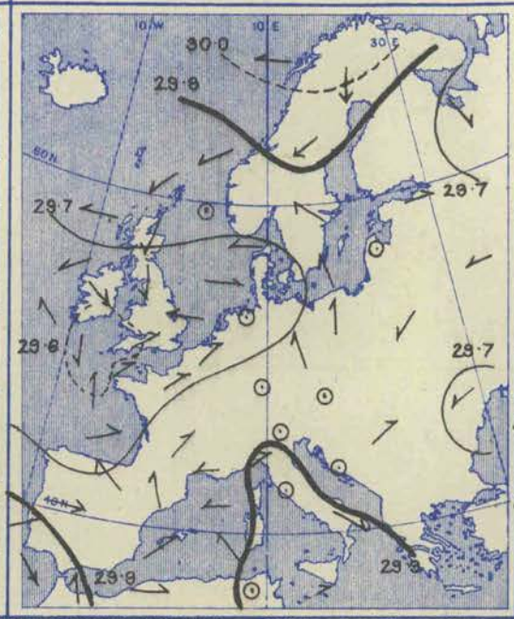
Temperature and Weather. 8 a.m.

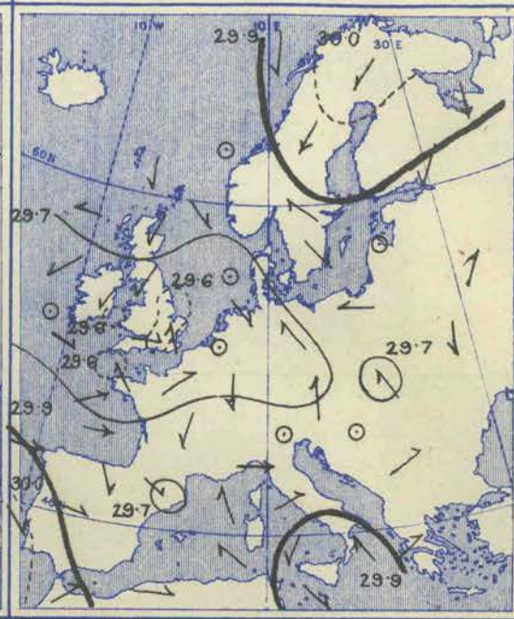


Weather in morning cloudy or dull in all but the extreme northern parts of the United Kingdom, and also over France and the Netherlands, with rain at one or two of the English stations, and also at Lorient and Rochefort. Fine over the Continent as a whole, but dull over Denmark, the Baltic, and the south of Sweden, with rain at Karlstad and Wisby. Thunderstorms occurring later in many parts of England and France, with heavy rains locally in both countries. Heavy rain falling also at Leith and Shields, at Ross (Hertfordshire), and at Munich.

Temperature fallen in most places. Morning reading highest, 90° at Algiers, 89° at La Calle, 88° at Palma, and 84° at Sfax; above 75° at the Mediterranean and Adriatic stations generally, and just touching that point at Moscow. Lowest, (1) 52° at Haparanda; (2) 54° at Spurn Head, and 55° at Shields, Malin Head, and Donaghadee. Remaining below 60° all day on some parts of our north-east coasts, but exceeding 70° in the south of England, and reaching 79° in London. Exceeding 80° over Germany and the south of France, and touching 86° at Nice and Perpignan, and 104° to 110° in various parts of Algeria and Tunis.

Barometer and Wind. 8 a.m. and 6 p.m.



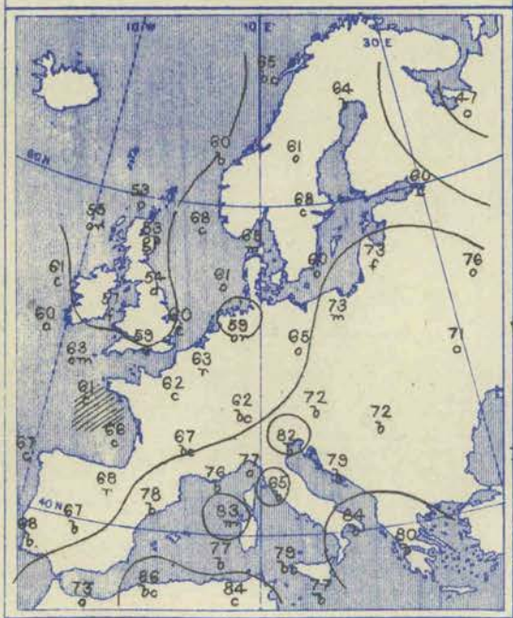


Wind varying between North and East over all the more northern and eastern parts of our Islands, and also over Scandinavia, light in force in most places. Very variable on our south-west coasts; light from the South-Westward over the English Channel and the greater part of France. Calm or variable over Germany, Austria, Italy, and the south of France; Westerly or North-Westerly over the Spanish Peninsula. No important change occurring over western Europe during day.

Barometer highest, 30·0 ins. and upwards in the north of Scandinavia; 29·9 ins. over Italy, and also over the southern parts of the Spanish Peninsula. Lowest, 29·6 ins. and less in a shallow depression lying over the south-west of our Islands; 29·7 ins. and less in another shallow disturbance over the extreme south of Russia. Former depression spreading north-eastwards later over England; barometer rising again on our western coasts.

Wednesday, 21st July.

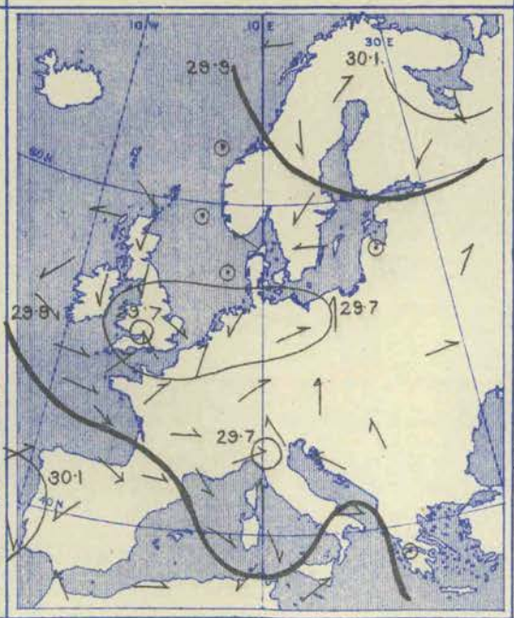
Temperature and Weather. 8 a.m.

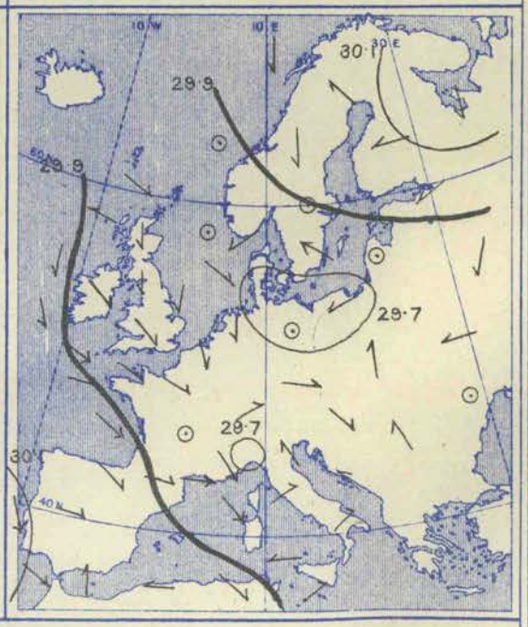


Weather in morning fine over the Mediterranean and the greater part of southern Europe, as well as in the far north; cloudy or overcast elsewhere, and very unsettled over some parts of England—mist and fog in several places, rain at Aberdeen, Brussels, and Prague. Thunderstorms later over the southern, midland, and eastern counties of England—very severe on the north side of London—heavy rain at Berlin and considerable quantities in several other localities.

Temperature fallen irregularly over our Islands and over Russia. Morning readings highest, 90° at Tunis, 86° at Algiers, 84° at Brindisi, 82° at Trieste, 79° at Leghorn, 76° at Nice; 74° at Memel, Neufahrwasser, and at Riga; 76° at Moscow. Lowest, 47° at Archangel, 55° at Sumburgh Head and Aberdeen, 54° at Shields. Rising later to between 70° and 77° over England, to 75° at Berlin, 73° at Paris, 86° at Perpignan, 95° at Nice, Brindisi, and Malta, and to 108° at Tunis.

Barometer and Wind. 8 a.m. and 6 p.m.



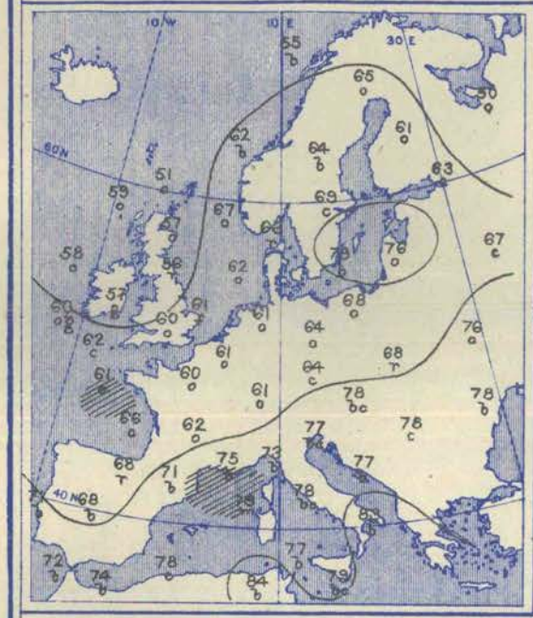


Wind light generally—Northerly and North-Easterly over northern Europe and Scotland, Westerly to South-Westerly over the Bay of Biscay and France, Southerly over north Germany. A complex cyclonic circulation of light winds prevalent over England, the Netherlands, and the North Sea, and a moderate to fresh cyclonic circulation prevailing over the Mediterranean. Becoming more generally North-Westerly over our Islands later.

Barometer highest, 30·1 ins. and more to 29·9 ins. in two anticyclones, one over northern, the other over south-western Europe. Lowest, below 29·7 ins. in a large and complex, but shallow, depression lying over England, north Germany, the Netherlands, and the southern half of the North Sea, and below 29·8 ins. in a very shallow system over the northern parts of the Mediterranean, Italy, and the Adriatic. Rising over our Islands all day.

Thursday, 22nd July.

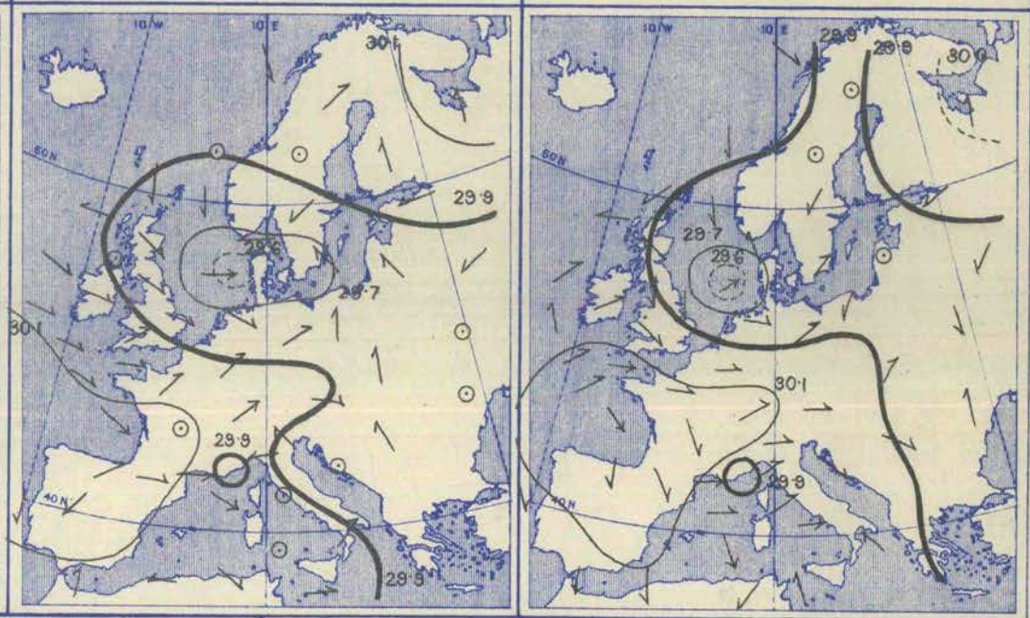
Temperature and Weather. 8 a.m.



Weather in morning fine and bright (1) over the Mediterranean and the extreme south of Europe generally; (2) over the greater part of Scandinavia and some parts of Finland, cloudy or overcast elsewhere, and unsettled, with mist in many parts of our Islands; rain at Shields, and at some stations over central Europe. Rain later in many parts of central and northern Europe—heavy at Groningen, Trieste, Belfort, Cuxhaven, and Karlstad; slight showers over Ireland; lightning at Karlstad.

Temperature risen in Scotland, fallen in some parts of Russia and central Europe, as well as over Algeria. Morning readings highest, (1) 84° at Sfax, 83° at Brindisi, 78° at Rome and Vienna, 77° at Trieste, 76° at Lemberg; (2) 76° at Riga, 73° at Wisby, 69° at Stockholm and Karlstad. Lowest, 50° at Archangel, 51° at Sumburgh Head, 55° at Bodö and Wick, 56° at Malin Head and Shields. Rising later to between 70° and 74° over England, to 72° at Berlin, 73° at Paris, to 84° at Nice, to 86° at Perpignan and Gap, and 99° at Brindisi.

Barometer and Wind. 8 a.m. and 6 p.m.

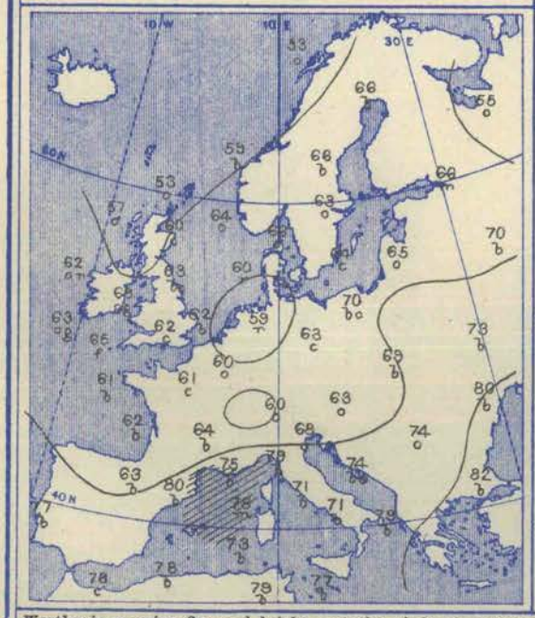


Wind light and variable over northern Europe, light Northerly to North-Westerly over our Islands, Westerly to South-Westerly over central Europe, and Southerly over the Baltic Provinces, but North-Easterly over the southern parts of Sweden.

Barometer highest, 30·1 ins. and more to 30·0 ins. over the whole of south-western, and also over northern Europe, and exceeding 29·9 ins. in a small secondary anticyclone over the east of Scotland. Lowest, 29·6 ins. to 29·7 ins. in a complex depression lying over Denmark and the Baltic, and below 29·9 ins. both over south-eastern Europe and in a small depression near Nice. Depression over Denmark growing deeper later, and barometer beginning to fall in the west of Ireland.

Friday, 23rd July.

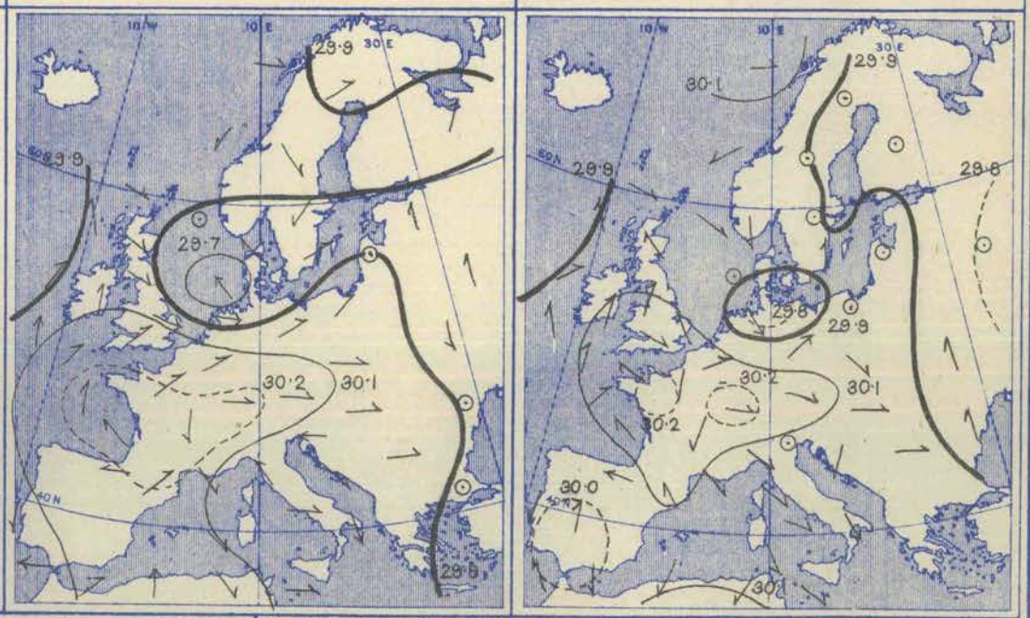
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over the whole of south-western, southern, and south-eastern Europe, France, England, and the northern parts of Scandinavia, as well as over central Russia; cloudy or overcast elsewhere, with rain in the west of Ireland, as well as at Cuxhaven and Fanö. Heavy rain falling at Valencia later, and smaller quantities at most of the Irish, Scotch, and Scandinavian stations, as well as over some parts of Germany. A heavy local fall at Lemberg, and 0·4 in. at Naples, but none over England, France, or Spain. Thunder and lightning occurring at Ardrossan and Donaghadee.

Temperature rising over England and France, falling a little over Italy and south-eastern Europe. Morning readings highest, 82° at Constantinople, 80° at Barcelona, 79° at Leghorn and Brindisi, 78° at Algiers, 69° at Karlstad, 67° at Parsonstown. Lowest, 53° at Bodö and Sumburgh Head, 55° at Archangel, 58° at Ardrossan, 59° at Donaghadee. Rising later to between 75° and 80° over the greater part of England, and touching 70° at Berlin, 73° at Paris, 84° at Nice, 91° at Rochefort and Lisbon, 90° at Palermo, 91° at Sfax, and 106° at Aumale.

Barometer and Wind. 8 a.m. and 6 p.m.



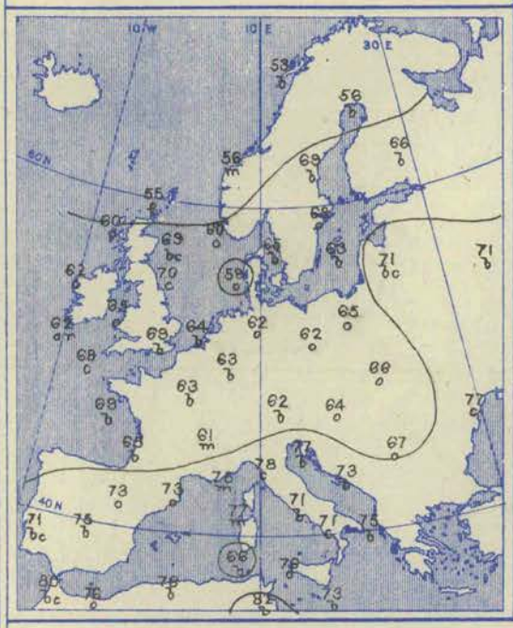
Wind (1) light and anticyclonic over Spain, France, and England; (2) Southerly and moderate over Ireland and the west of Scotland; (3) cyclonic and very fresh over the eastern shores of the North Sea. The Southerly wind in the west spreading eastwards later, and the cyclonic circulation in the east breaking up.

Barometer highest, (1) 30·2 ins. and more to 30·1 ins. in an anticyclone of irregular outline covering France, Spain, and the south of England, and exceeding 30·0 ins. in a ridge stretching northwards to Aberdeen; (2) exceeding 30·0 ins. in another system off the north-west coast of Norway. Lowest, 29·6 ins. and less in a depression over the North Sea near Fanö, and below 29·9 ins. off the north-western coasts of our Islands. Depression in east passing away to the Baltic later, but a fresh fall of the barometer commencing in the south-west of Ireland

Saturday, 24th July.

Temperature and Weather.

8 a.m.

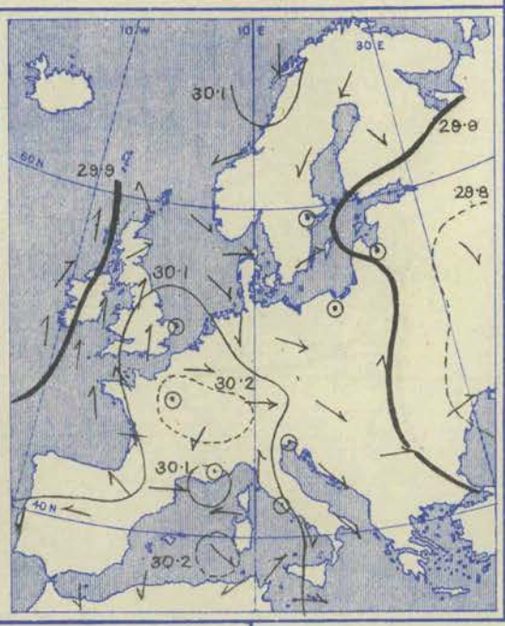


Weather in morning fine over the Mediterranean, Spain, France, the greater part of England, and the east of Scotland; cloudy or overcast elsewhere—rainy in several parts of central Europe, and still more generally over Ireland. Rain falling later in considerable quantity over the western and northern parts of our Islands, and over north Germany; amounts varying from 0·8 in. to 0·4 in. in some places.

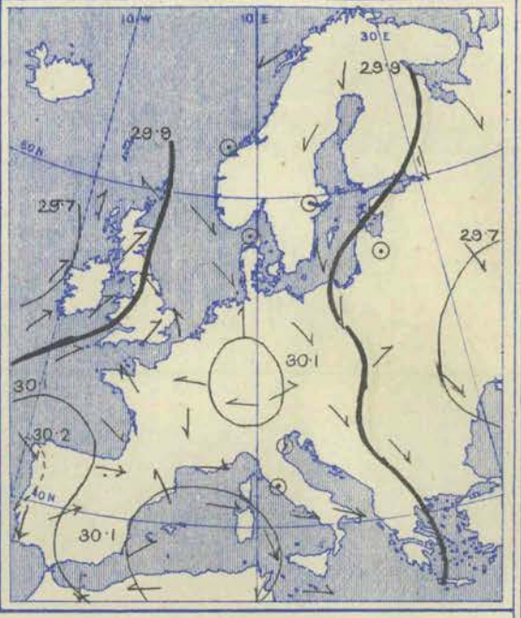
Temperature risen decidedly over Great Britain, slightly over France, fallen over Ireland. Morning readings highest, 84° at Aumale, 82° at Sfax and Barcelona, and ranging from 79° to 68° at the Mediterranean stations as a whole; above 60° all over the Continent—71° at Riga, 69° at Uleaborg, Hernösand, and Memel. Lowest, 53° at Bodö, 55° at Sumburgh Head, 59° at Fanö, the Helder, and Münster. Rising later to much above 80° over many parts of England, to 86° at Nice and Biarritz, and to 93° at Rochefort.

Barometer and Wind.

8 a.m.



6 p.m.



Wind light and anticyclonic over France, western Germany, the Netherlands, and the eastern half of England; moderate from the Southward on all our western and northern coasts; Northerly and North-Easterly over the north of Scandinavia. Westerly over the greater part of central Europe. Becoming Southerly to South-Easterly all over our Islands later, and freshening somewhat.

Barometer highest, 30·2 ins. and more to 30·1 ins. all over France, the eastern half of England, and the Mediterranean, and north of Africa, and exceeding 30·1 in the western part of Lapland also. Lowest, below 29·8 ins. over the central and southern parts of Russia, and below 29·9 ins. over the Hebrides and the western parts of Ireland. Falling over our Islands and France all day, and a small thunderstorm disturbance appearing over the Channel and north of France.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 170.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	39·0	+ 7·8	34	+ 7	EASTBOURNE	52·7	+ 3·3	48	+ 3
OSWALDKIRK (Yorkshire)	45·1	+10·7	40	+10	VENTNOR	35·8	?	33	?
WORKSOP	48·5	+13·5	43	+12	SOUTHPORT	48·8	?	43	?
THURCASTON (Leicestershire)	50·3	+13·7	45	+13	COLWYN BAY	38·6	?	34	?
MARGATE	63·5	+20·6	58	+19	NEWQUAY	23·2	−24·3	21	−22
WESTBOURNE (Sussex)	49·6*	+ 2·6	46*	+ 3	TORQUAY	36·8*	− 9·2	34*	− 8
BRIGHTON	45·4	− 3·8	42	− 4	GUERNSEY	53·4*	+ 0·4	49*	0

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV. No. 30.] *Third Series.* WEEK ENDING SATURDAY, JULY 31ST, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 176.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	74	46	63·6	52·3	57·6	3 above	109	+24	0	0	1100	+112	615	− 8
	1. SCOTLAND, EAST	80	45	68·3	52·9	60·1	3 above	127	+24	0	0	1261	+ 32	661	+ 12
	2. ENGLAND, N.E.	81	43	70·5	54·3	61·9	3 above	139	+25	0	0	1370	+ 95	471	− 78
	3. ENGLAND, EAST	81	51	72·0	55·4	63·1	2 above	148	+22	0	0	1709	+187	493	−124
	4. MIDLAND COUNTIES	82	48	72·0	55·2	63·0	3 above	147	+26	0	0	1707	+159	504	−115
	5. ENGLAND, SOUTH	85	52	71·8	57·6	64·2	3 above	155	+23	0	0	1890	+238	297	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	76	51	66·5	54·4	60·0	3 above	126	+21	0	0	1371	+ 71	441	− 21
	7. ENGLAND, N.W.	77	50	68·0	55·8	61·5	2 above	137	+22	0	0	1538	+148	367	− 92
	8. ENGLAND, S.W.	85	54	69·3	56·7	62·6	3 above	144	+24	0	0	1825	+251	223	−138
	9. IRELAND, NORTH	77	49	66·5	55.3	60·5	3 above	130	+24	0	0	1447*	+ 49	403	+ 8
	10. IRELAND, SOUTH	79	51	67·5	55·9	61·3	3 above	135	+21	0	0	1764	+163	242	− 57
	—CHANNEL ISLANDS	73	57	68·2	58·4	63·0	1 above	147	+16	0	0	2077	+315	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 176.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	7	2 less	126	− 9	21·9	− 3·3	25	+ 1	22	+ 1	851	+115	31	+ 4
	1. SCOTLAND, EAST	3	3	5 less	115	+ 6	16·0	− 0·4	50	+17	44	+15	881	+ 42	32	+ 1
	2. ENGLAND, N.E.	2	2	5 less	104	+ 1	12·6	− 0·9	58	+23	52	+21	935*	+108	34	+ 4
	3. ENGLAND, EAST	2	2	4 less	103	+ 3	12·4	− 1·1	54	+10	50	+10	1027	+ 59	38	+ 2
	4. MIDLAND COUNTIES	2	2	4 less	102	+ 4	15·1	+ 0·3	58	+19	54	+19	980	+108	36	+ 4
	5. ENGLAND, SOUTH	2	2	4 less	94	0	15·4	+ 0·6	53	+ 6	49	+ 6	1071	+ 61	40	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	6	4 less	125	+10	23·2	− 1·6	42	+ 5	38	+ 4	910	+ 13	33	+ 1
	7. ENGLAND, N.W.	3	5	3 less	117	+11	17·2	+ 0·3	49	+12	45	+12	988	+ 74	35	+ 2
	8. ENGLAND, S.W.	3	3	6 less	119	+12	22·8	+ 3·3	49	+ 5	46	+ 5	1057	− 4	39	0
	9. IRELAND, NORTH	4	6	3 less	134	+10	22·8	+ 3·6	35	+ 6	32	+ 5	826	− 6	30	− 1
	10. IRELAND, SOUTH	3	5	3 less	126	+13	23·9	+ 3·3	31	− 2	28	− 2	875	− 59	32	− 2
	— CHANNEL ISLANDS	2	2	5 less	128	+15	18·8	+ 2·5	51	+ 4	48	+ 4	1104	− 77	42	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was very changeable during the earlier days of the week, with rain and occasional thunderstorms; subsequently, however, it became very fine, bright, and dry in all parts of the Kingdom.

Temperature was again above the mean, the excess ranging from 1° in the Channel Islands to 3° in most other districts. The highest of the maxima were recorded on the 30th, when they varied from 85° in England S. and S.W. to 74° in Scotland N. and 73° in the Channel Islands. The lowest of the minima (which were recorded on rather irregular dates) ranged from 43° in England N.E., 45° in Scotland E., 46° in Scotland N., and 48° in the Midland counties to 54° in England S.W., and 57° in the Channel Islands.

Rainfall was considerably less than the mean in all districts.

Bright Sunshine was rather less than the normal amount in Ireland S., but in all the other districts there was an excess, that in most cases being very decided. The percentage of the possible duration ranged from 54 in the Midland counties, 52 in England N.E., and 50 in England E. to 32 in Ireland N., 28 in Ireland S., and 22 in Scotland N.

Barometer and Wind.—During the earlier part of the period a well-marked depression moved slowly eastwards along the north of Scotland, while small secondary disturbances passed directly across our Islands in a similar direction. The prevailing winds were therefore Westerly (South-West to North-West) and on the more exposed parts of our western and southern coasts they occasionally blew with considerable strength. By the middle of the week, however, the disturbance in the north had become shallow, and from that time an anticyclone spread gradually over the Kingdom from the South-Westward, and the winds became light from the North-Westward or Northward. By the end of the week the anticyclone lay over all the northern parts of the Kingdom and the wind in the south-east and south had shifted to the North-Eastward.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 175 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N	Sumburgh Head	62	46	60·0	50·4	54·9	+ 1·5	90	0	5	0·59	− 0·06	*	*	*	*
	Stornoway	63	50	59·9	51·9	55·6	+ 0·9	95	0	5	0·33	− 0·42	19·4	−10·6	17	− 9
	Wick	69	50	66·0	52·9	59·0	+ 3·8	119	0	3	0·26	− 0·34	*	*	*	*
	Lairg Ⓢ	71	48	66·6	51·2	58·4	+ 4·2	115	0	4	0·44	− 0·32	*	*	*	*
	Glencarron Ⓢ	73	49	62·6	51·1	56·5	+ 2·0	102	0	5	1·39	− 0·09	*	*	*	*
	Fort Augustus Ⓢ	71	52	65·5	54·0	59·4	+ 3·1	122	0	5	0·50	− 0·28	?29·5	? +11·8	? 26	? +10
	Fort William Ⓢ	74	52	64·6	54·3	59·1	+ 2·6	120	0	5	1·45	+ 0·15	25·5	0·0	22	0
1. SCOTLAND, E.	Nairn	74	45	68·6	51·3	59·4	+ 1·9	122	0	4	0·20	− 0·52	*	*	*	*
	Aberdeen	69	52	66·9	54·4	60·2	+ 3·1	127	0	4	0·42	− 0·36	49·4	+14·5	43	+13
	Braemar Ⓢ	72	48	65·3	52·3	58·4	+ 4·1	115	0	3	0·29	− 0·41	48·2†	+18·4†	42†	+16†
	Ochtertyre Ⓢ	79	50	70·9	53·4	61·5	+ 3·3	137	0	2	0·40	− 0·49	*	*	*	*
	Leith	80	52	70·7	55·1	62·4	+ 3·6	143	0	2	0·44	− 0·27	*	*	*	*
	Marchmont Ⓢ	71	46	67·6	50·9	58·7	+ 2·2	117	0	2	0·24	− 0·64	51·8	+16·2	46	+14
2. ENGLAND, N.E.	Alnwick Castle	76	43	69·8	51·1	59·8	+ 2·7	125	0	2	0·13	− 0·60	*	*	*	*
	Durham	79	51	72·8	52·8	62·1	+ 3·3	141	0	2	0·26	− 0·52	58·8	+23·8	53	+22
	Shields	75	51	70·7	55·3	62·5	+ 4·4	144	0	2	0·11	− 0·57	*	*	*	*
	Scarborough Ⓜ	76	52	69·4	54·7	61·5	+ 2·3	137	0	1	0·25	− 0·47	*	*	*	*
	York	81	51	71·7	54·7	62·6	+ 3·0	144	0	3	0·43	− 0·27	64·7	+28·2	59	+26
	Spurn Head	75	55	68·6	57·3	62·6	+ 2·8	144	0	2	0·17	− 0·30	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	79	51	72·7	54·2	62·8	+ 2·1	146	0	2	0·55	− 0·21	53·8	+11·8	49	+11
	Yarmouth	75	55	68·1	57·0	62·2	+ 1·5	141	0	2	0·16	− 0·51	*	*	*	*
	Geldeston	76	53	72·3	55·3	63.2	+ 2·5	148	0	1	0·06	− 0·57	44·1	− 1·0	41	0
	Cambridge	81	52	74·9	55·3	64·4	+ 2·8	157	0	1	0·10	− 0·52	59·6	+17·1	55	+17
	Rothamsted	78	51	72·2	55.0	63·0	+ 2·4	147	0	3	0·28	− 0·39	59·8	+14·8	55	+13
4. MIDLAND COUNTIES	Harrogate															
	Bawtry (Hesley Hall)	79	50	72·6	55·0	63·2	+ 2·9	148	0	2	0·16	− 0·49	*	*	*	*
	Loughborough	82	50	73·6	55·6	64·0	+ 2·6	154	0	2	0·34	− 0·23	*	*	*	*
	Stamford (Duddington)	82	50	73·4	55·3	63·7	+ 2·3	152	0	1	0·06	− 0·61	*	*	*	*
	Cheadle Ⓜ	74	49	67·9	53·7	60·3	+ 2·2	128	0	3	0·47	− 0·30	*	*	*	*
	Shirley (near Solihull)	77	48	71·1	53·5	61·7	+ 1·5	138	0	3	0·06	?	*	*	*	*
	Churchstoke Ⓜ	79	52	71·1	54·5	62·2	+ 4·0	141	0	1	0·40	− 0·25	56·8	+19·2	52	+18
	Hereford Ⓜ	80	53	73·1	55·4	63·6	+ 3·4	151	0	2	0·23	− 0·35	*	*	*	*
	Cirencester	79	50	72·4	56·0	63·6	+ 4·5	151	0	2	0·25	− 0·53	63·9	+22·9	59	+22
	Oxford	80	55	72·4	57·4	64·4	+ 3·5	157	0	2	0·23	− 0·41	62·4	+20·4	58	+19
5. ENGLAND, S.	London	82	55	74·4	57·7	65·5	+ 3·2	165	0	3	0·33	− 0·27	58·0†	+19·2†	54†	+18†
	North Foreland	78	54	70·6	58·0	63·9	+ 3·0	153	0	2	0·04	?	*	*	*	*
	Dungeness	76	54	69·0	57·0	62·6	+ 0·9	144	0	2	0·03	− 0·47	*	*	*	*
	Hastings (St. Leonards)	79	54	70·3	57·3	63.4	+ 2·2	150	0	3	0·38	− 0·27	50·5	+ 1·0	47	+ 2
	Southampton	85	55	75·8	58·0	66·3	+ 4·2	170	0	1	0.15	− 0·55	61·6	+15·6	58	+15
	Hurst Castle	77	57	71·7	59·3	65·1	+ 3·0	162	0	2	0·11	− 0·49	*	*	*	*
	Shaftesbury Ⓜ	78	52	70·8	55·6	62·7	+ 4·0	145	0	3	0·48	− 0·24	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	73	52	64·4	54·7	59·2	+ 2·3	120	0	5	1·41	+ 0·14	*	*	*	*
	Glasgow	72	52	65·9	55·0	60·1	+ 2·9	127	0	2	0·61	− 0·27	30·0	+ 0·2	27	0
	Ardrossan	74	54	65·0	55·1	59·7	+ 1·8	124	0	5	0·52	− 0·26	*	*	*	*
	Glenlee Ⓢ	75	51	69·1	53·3	60·7	+ 3·2	131	0	3	0·59	− 0·50	*	*	*	*
	Gilcrux	76	52	67·7	54·5	60·6	+ 3·5	130	0	4	0·29	?	43·4	?	39	?
	Douglas (Isle of Man)	71	51	66·9	53·7	59·8	+ 2·5	125	0	2	0·08	− 0·72	51·2	+ 8·7	47	+ 9
7. ENGLAND, N.W.	Stonyhurst	73	52	66·9	54·9	60·5	+ 2·0	130	0	3	1·00	− 0·13	43·0	+ 7·0	39	+ 7
	Blackpool Ⓜ	76	54	69·2	56·2	62·3	+ 2·7	142	0	2	0·33	− 0·50	54·7	+16·2	50	+16
	Manchester (Prestwich)	73	50	68·8	54·7	61·3	+ 2·3	135	0	3	0·62	− 0·33	44·3	?	40	?
	Liverpool Obsy. (Bidston)	77	55	67·7	56·6	61·8	+ 1·9	139	0	4	0·34	− 0·44	*	*	*	*
	Llandudno Ⓜ	77	55	68·8	57·4	62·7	+ 2·1	145	0	3	0·35	− 0·32	*	*	*	*
	Holyhead	71	54	66·3	55·1	60·3	+ 1·1	128	0	4	0·41	− 0·21	*	*	*	*
8. ENGLAND, S.W.	Llandovey	85	54	73·0	55·6	63·7	+ 4·6	152	0	4	0·54	− 0·50	*	*	*	*
	Pembroke	73	55	65·0	56·7	60·6	+ 1·7	130	0	2	0·20	− 0·49	49·2	+ 6·2	46	+ 7
	Clifton	81	55	71·4	58·1	64·3	+ 3·7	156	0	?	0·39	− 0·49	*	*	*	*
	Arlington (N. Devon)	76	54	67·1	55·6	61·0	+ 2·5	133	0	4	0·38	− 0·88	*	*	*	*
	Cullompton Ⓜ	82	54	72·8	56·3	64·0	+ 3·3	154	0	4	0·21	− 0·49	49·0	+10·6	46	+10
	Falmouth	70	56	68·0	57·3	62·3	+ 1·7	142	0	3	0·13	− 0·67	53·0	+ 6·5	50	+ 6
	Plymouth	76	54	69·0	57·2	62·7	+ 1·3	145	0	2	0·12	− 0·66	43·8	+ 1·0	41	+ 1
	Prawle Point	73	54	68·4	56·7	62·1	+ 2·6	141	0	2	0·02	− 0·63	*	*	*	*
9. IRELAND, N.	Malin Head	65	54	62·0	55·6	58·6	+ 1·4	116	0	5	0·45	?	*	*	*	*
	Londonderry	77	52	69·1	56·1	62·2	+ 4·0	141	0	5	0·67	− 0·28	*	*	*	*
	Edenfel (Omagh)	76	53	66·4	55·6	60·6	+ 3·8	130	0	4	0·47	− 0·45	*	*	*	*
	Belmullet	69	55	64·3	56·6	60·1	+ 2·1	127	0	2	0·76	− 0·28	*	*	*	*
	Markree Castle	75	49	67·2	54·8	60·6	+ 3·3	130	0	4	0·97	+ 0·01	29·0	+ 2·0	26	+ 2
	Armagh	77	52	68·7	54·7	61·2	+ 3·4	134	0	4	0·18	− 0·57	41·7	+12·7	38	+12
	Donaghadee	74	52	68·1	54·9	61·0	+ 3·5	133	0	4	0·43	− 0·31	*	*	*	*
	Edgeworthstown	68	50	65·8	54·1	59·5	+ 2·0	123	0	5	0·76	− 0·24	*	*	*	*
10. IRELAND, S.	Dublin	72	53	68·5	57·0	62·4	+ 2·7	143	0	4	0·61	− 0·11	34·6	− 0·4	32	0
	Parsonstown	79	51	69·1	55·6	61·9	+ 3·4	139	0	4	0·84	+ 0·02	30·9	+ 0·2	28	0
	Kilkenny	77	51	70·1	55·0	62·0	+ 3·3	140	0	2	0·28	− 0·37	*	*	*	*
	Roche's Point	70	54	67·6	54·9	60·8	+ 1·1	132	0	2	0·16	− 0·69	*	*	*	*
	Valencia	67	52	64·4	56·0	59·9	+ 1·1	125	0	2	0·26	− 0·73	26·0	− 7·3	24	− 6
	Killarney	75	52	68·2	55·8	61·6	+ 3·1	137	0	4	0·29	?	*	*	*	*
	Foynes	72	52	64·6	56·8	60·4	+ 2·5	129	0	4	1·05	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	71	57	67·1	57·9	62·2	+ 1·5	141	0	1	0·03	− 0·62	37·6	?	35	?
	Jersey	73	57	69·3	58·9	63·7	+ 1·0	152	0	2	0·27	− 0·38	54·6	+ 2·7	52	+ 3

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

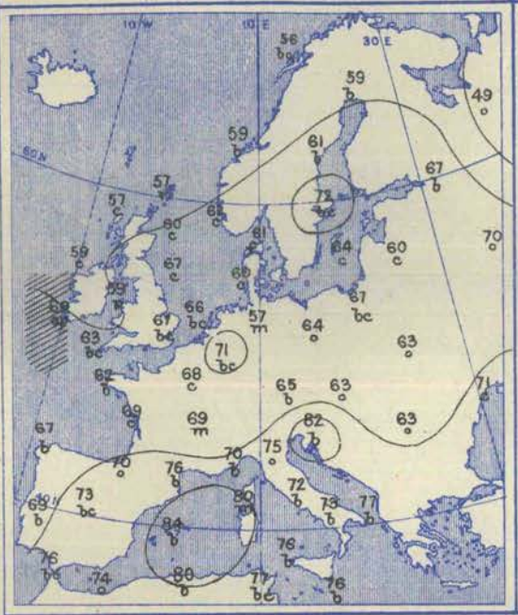
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 25th July.

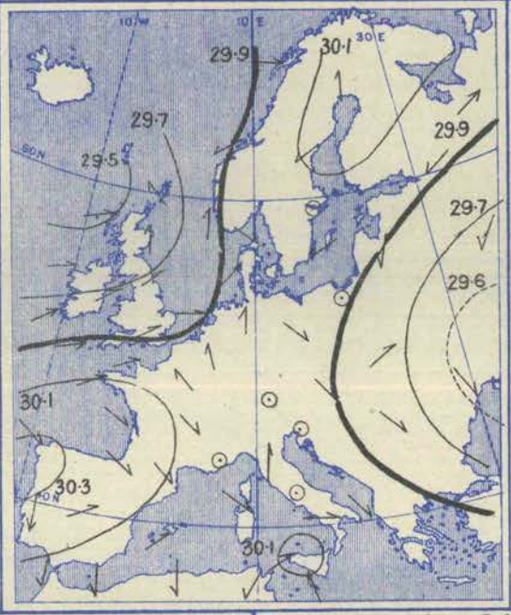
Temperature and Weather.

8 a.m.

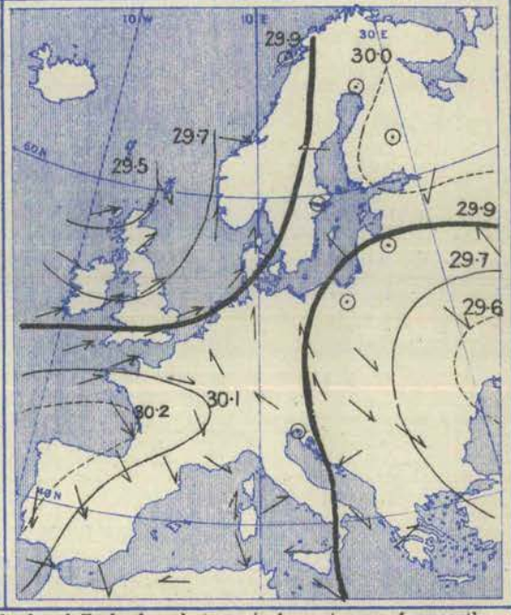


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the eastern and central parts of the United Kingdom, but showery in the west and rainy in the Shetlands. Fine over the greater part of the Continent, but dull at many stations in Austria and the south of Russia. Showers falling later in most parts of our Islands, as well as in Denmark, north Germany and the south of Scandinavia; thunderstorms occurring at many of the English stations, and also at Aberdeen and Donaghadee.

Temperature fallen in our Islands but changed irregularly elsewhere. Morning readings highest, 84° at Palma, 82° at Trieste, and 80° at Sanguinaire and Algiers; above 70° over southern Europe generally, as well as at some stations in the south of Sweden, and just touching that point at the North Foreland. Lowest, 49° at Archangel, 56° at Bodö, and 57° at Sumburgh Head, Stornoway, and Ardrossan. Rising during day to between 70° and 75° in many parts of Great Britain, to 77° in London, and to 78° at Cambridge and the North Foreland. Exceeding 85° over southern Europe as a whole, and reaching 99° at Gap, Madrid, and Cagliari.

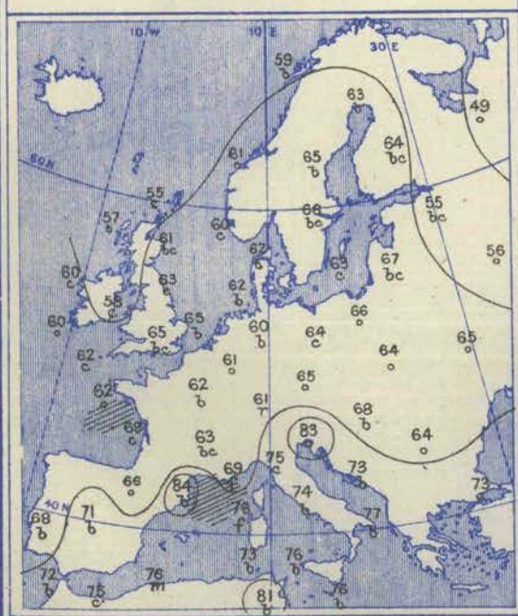
Wind South-Westerly over Ireland and England, and strong in force at some of our south-western stations; Southerly in the north and east of Scotland and also on the eastern and southern shores of the North Sea. Light from the North-Eastward over Sweden, Finland, and central Russia; North-Westerly in Germany and Austria, as well as in the western and southern parts of France; Northerly over the southern parts of the Spanish peninsula; variable in Italy. Subsequently veering to the Westward on our western and southern coasts, and to the South-Westward in Scotland; no important change occurring elsewhere.

Barometer highest, 30·30 ins. at Corunna, 30·1 ins. and upwards in an anticyclone lying over nearly the whole of the Spanish peninsula and the south-western parts of France, and also in another system over the Gulf of Bothnia and the neighbouring parts of Sweden and Finland. Lowest, 29·5 ins. and less in a depression lying off the north-west of Scotland; 29·6 ins. and less in another disturbance over the south of Russia. Scotch depression subsequently spreading eastwards; small secondary disturbances passing across our islands during day.

Monday, 26th July.

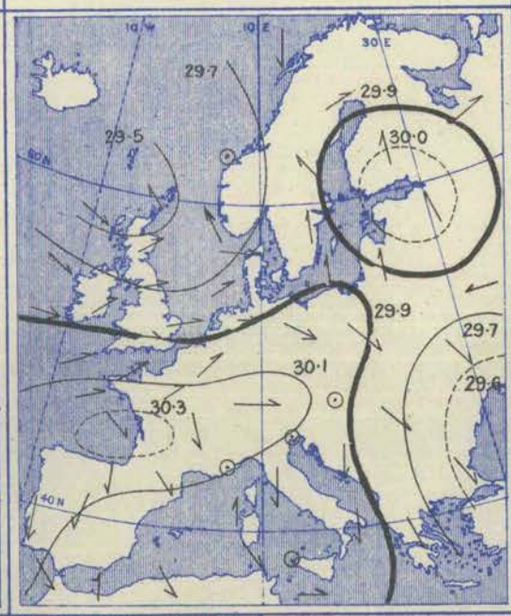
Temperature and Weather.

8 a.m.

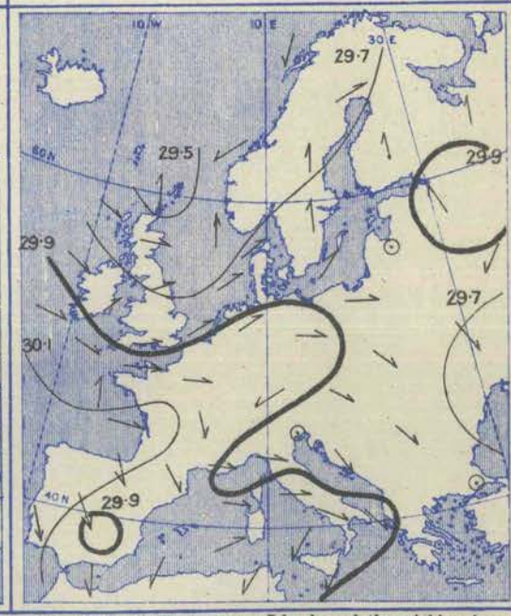


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over England, but showery in many parts of Ireland and Scotland. Cloudy or dull over the more central parts of the Continent as a whole, with rain at Copenhagen, Swinemünde and Munich, and thunder at Faerder; fine in most of the southern and extreme northern countries. Thunderstorms occurring later in several parts of England, and also at Cuxhaven; thunder heard at Aberdeen, and rain falling in many portions of western, central, and southern Europe—very heavily (3·0 ins.) at Lorient.

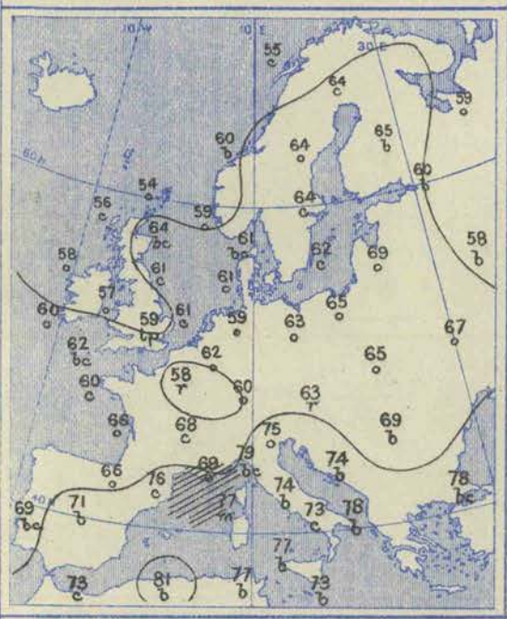
Temperature fallen in our Islands, France, Spain, and the Netherlands; risen or changed irregularly elsewhere. Morning readings highest, 84° at Barcelona, 83° at Trieste, 81° at Sfax, and 79° at Aumale; above 70° over southern Europe generally, and above 65° over the Baltic Provinces and the south of Sweden. Lowest, (1) 49° at Archangel, and 56° at Moscow; (2) 55° at Sumburgh Head, and 57° at Stornoway and Nairn. Rising during day to between 70° and 75° at many of the English stations; exceeding 75° in some parts of Germany and Austria, and exceeding 85° in several parts of southern Europe; the highest readings of all being 100° at Malta, and 96° at Madrid.

Wind moderate to strong from the West or South-West over our Islands and the neighbouring parts of the Continent; South or South-East over Scandinavia and northern Russia. Light from the Northward over southern Europe as a whole, but variable over the northern parts of Italy and the Adriatic. Subsequently veering to the North-West on our own western coasts; North-Westerly breezes setting in over Italy and the Adriatic.

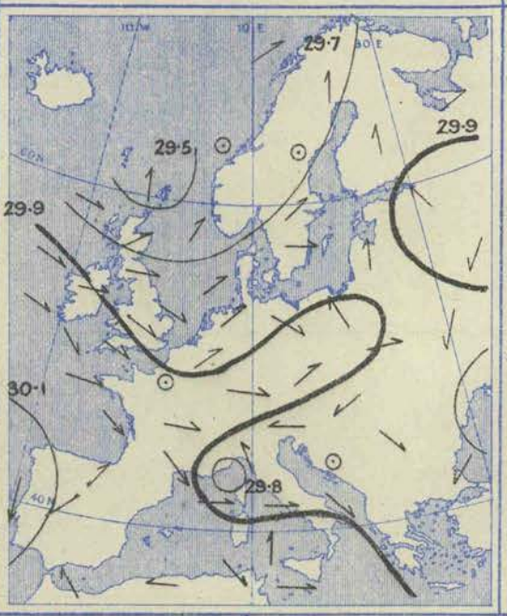
Barometer highest 30·1 ins. to 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay, France, and the western and northern part of the Spanish peninsula; 30·0 ins. and upwards in another system over the Gulf of Finland and the neighbouring provinces. Lowest, 29·5 ins. and less in a depression lying off the north of Scotland; 29·6 ins. and less in another disturbance over the south of Russia. Small secondary depressions passing eastwards across our Islands during day and barometer changing somewhat irregularly.

Tuesday, 27th July.

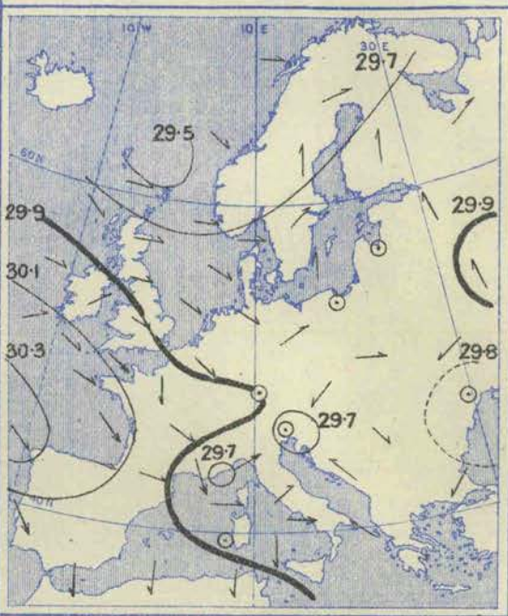
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning rather changeable over the United Kingdom, with thunder showers in the east and south-east of England; showers falling also on our extreme north-west coasts. Fine over southern Europe as a whole, as well as over northern and central Russia, and the south of Scandinavia. Dull at most of the French, German, and Austrian stations, with rain in places. Rain falling later in several parts of western and central Europe—heavily at Vienna; further thunderstorms occurring in the east and south-east of England, as well as at Fanö; thunder only heard at Aberdeen and Servance.

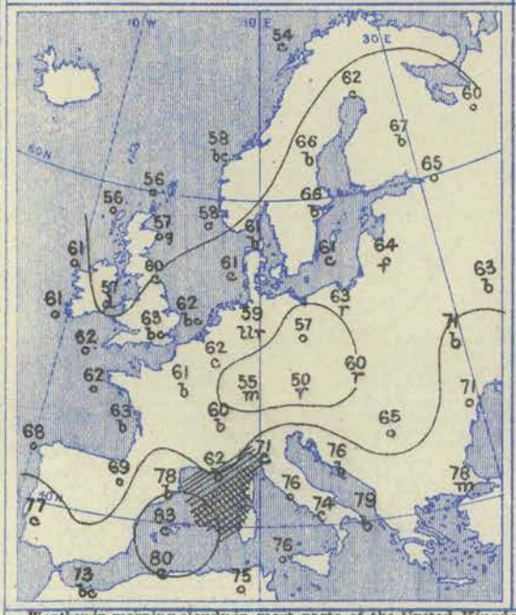
Temperature fallen in most places. Morning readings highest, 81° at Aumale, 79° at Leghorn, and 78° at Brindisi and Constantinople; above 70° over southern Europe generally; above 65° over Finland and the Baltic Provinces, and touching 71° at Memel. Lowest, 54° at Sumburgh Head, 55° at Bodö, 56° at Stornoway, and 57° at Holyhead. Rising during day to 70° or a little above it at several of the English stations; exceeding 85° in many parts of southern Europe, and reaching 90° at Cape Bearn and Pesaro.

Wind light to moderate from the West or North-West over our Islands and the greater part of France; from the South-West over the Netherlands, Germany, Denmark, and the south of Scandinavia, and from the South in Finland. Variable over Italy and Austria; Northerly over the Spanish Peninsula. Subsequently backing to the South-West at some of our own western stations, but veering to the North-West on the eastern and southern shores of the North Sea.

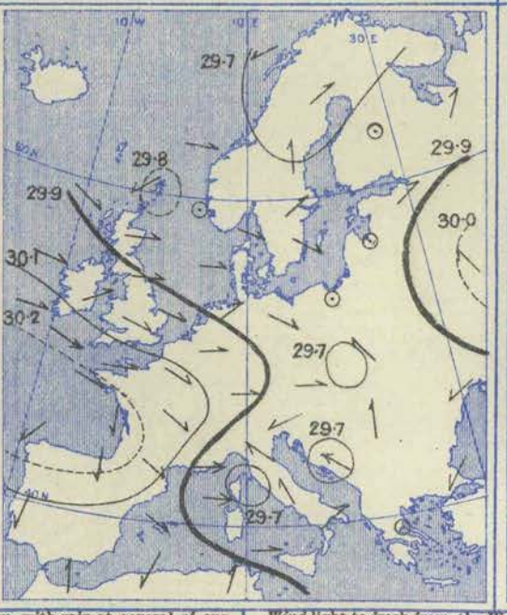
Barometer highest, 30·1 ins. and upwards in an anticyclone extending from the Atlantic over the western parts of the Spanish peninsula; 29·9 ins. and less in another system over central Russia. Lowest, 29·5 ins. and less in a shallow depression lying to the northward of the Shetlands, 29·8 ins. and less in a large shallow area over the south of Russia. Small secondary disturbance passing eastwards across our Islands during day, but barometer inclined to rise over western Europe generally. Well-marked depressions forming over the Gulf of Genoa and over Croatia.

Wednesday, 28th July.

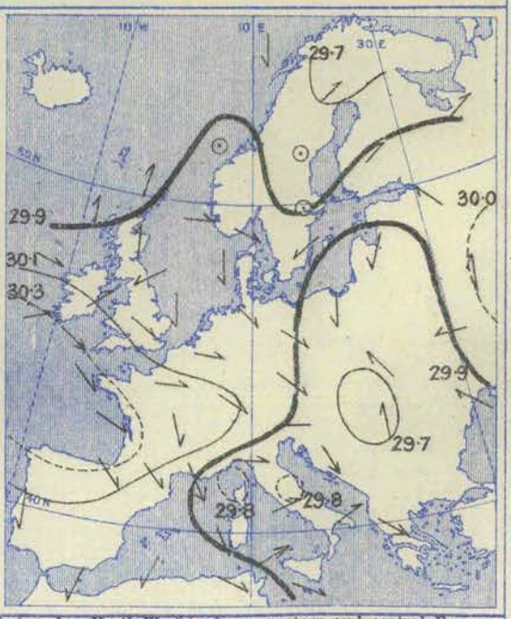
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy in most parts of the United Kingdom, with rain at several of our north-western stations. Fine in many of the Continental countries, but dull over Germany, Austria, and northern Italy, with rain in several places and with a thunderstorm at Cuxhaven. A little rain falling later over the northern parts of our Islands generally, and larger quantities at several of the French, German, and Austrian stations—as much as 1·3 ins. at Cracow. Thunderstorms occurring over the western and central parts of Germany.

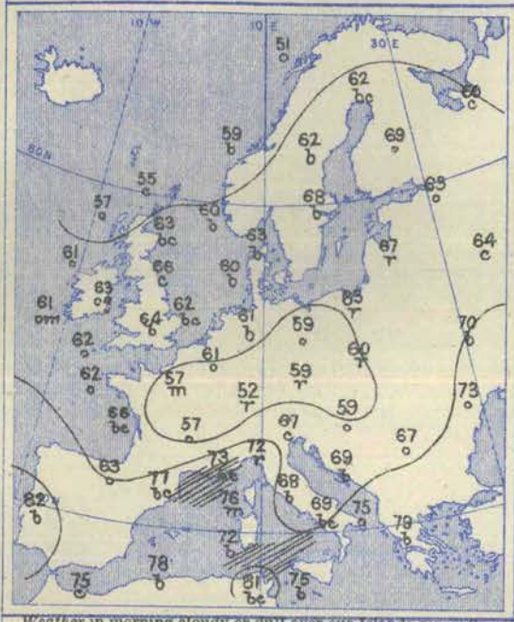
Temperature changed slightly and irregularly. Morning readings highest, 83° at Palma, 82° at Sfax, 80° at Algiers and 79° at Brindisi; above 70° over southern Europe generally, and above 65° in Sweden and Finland. Lowest, (1) 50° at Munich and 55° at Belfort; (2) 54° at at Bodö and 56° at Sumburgh Head, Stornoway, Wick, and Liverpool. Rising during day to 70° and upwards at several of our own eastern and central stations; exceeding 85° in many parts of southern Europe, and reaching 97° at Lisbon.

Wind light to fresh from the Westward or North-Westward over western and central Europe generally, but South-Westerly over Sweden and northern Russia. Light from the North-East in the south of Russia, variable in Austria and northern Italy; Northerly or North-Easterly over the Spanish peninsula. Subsequently backing to the Southward in Scotland and to the South-Westward over the Irish Sea; no important change occurring elsewhere.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the Bay of Biscay, the west of France and the extreme north-west of Spain; 30·0 ins. and upwards in another system over central Russia. Lowest, 29·7 ins. and less in a large shallow area over the northern parts of Scandinavia, and also in two well-marked depressions lying respectively over Galicia and over the provinces to the eastward of the Adriatic; 29·8 ins. and less in a shallow system off the north-east of Scotland. New depression approaching Scotland later from the westward, and barometer falling on our northern coasts generally.

Thursday, 29th July.

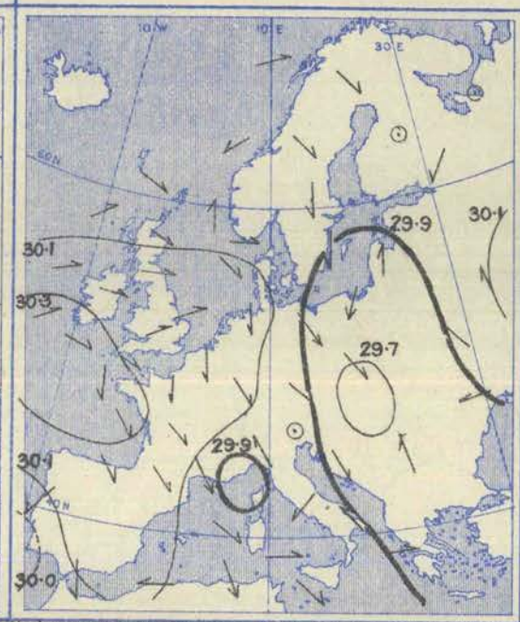
Temperature and Weather. 8 a.m.



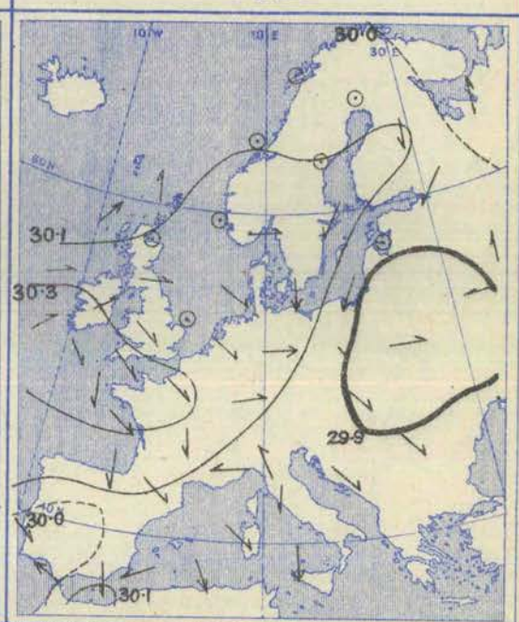
Weather in morning cloudy or dull over our Islands generally, with showers at Ardrossan. Fine over southern Europe, as well as in western Germany, Denmark and Scandinavia; cloudy or dull in most other parts of the Continent, with rain at many of the Austrian and German stations. A little rain falling later in the extreme north and north-west of our Islands and also in the west of Norway. Large quantities of rain reported in Austria—as much as 3·2 ins. at Vienna and 2·3 ins. at Prague.

Temperature risen in most of the western, northern and central countries, but fallen it Italy. Morning readings highest, 82° at Lisbon, 81° at Sfax, 79° at Athens and Patras, and 78° at Algiers; above 70° in many parts of southern Europe, and very little below it at several stations in Great Britain and also in Sweden and Finland. Lowest, (1) 51° at Bodö, 53° at Haparanda and 55° at Sumburgh Head; (2) 52° at Munich and 56° at Valencia. Rising during day to between 70° and 75° in many parts of our Islands and to 80° at Oxford. Exceeding 85° in several parts of southern Europe, and reaching 97° at Madrid.

Barometer and Wind. 8 a.m.



6 p.m.

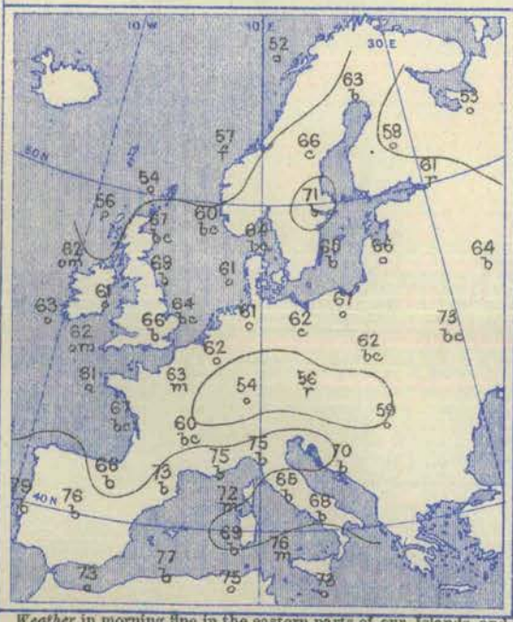


Wind light to moderate from the Westward over our islands generally, but South-Westerly on our extreme north-west coasts. Northerly over Finland, Sweden, Denmark, and the Baltic; North-Westerly in France, Germany and Austria. Varying Northerly in Italy; North-Easterly on the Portuguese coasts. Subsequently backing to the South-Westward on many parts of our western coasts and to the Southward in Scotland; no important change occurring elsewhere.

Barometer highest, 30·3 ins. and upwards over the Bay of Biscay, the west of France and the extreme south-west of our Islands; 30·1 ins. and upwards in an anticyclone covering the greater part of western Europe, and also in another system over central Russia. Lowest, 29·7 ins. and less in a depression over north-eastern Austria; 29·9 ins. and less in another disturbance over the Gulf of Genoa; 30·0 ins. and less in a large shallow area lying to the northward of our Islands. No important change occurring over western Enrope during day; but depression over Austria moving eastwards and partially filling up.

Friday, 30th July.

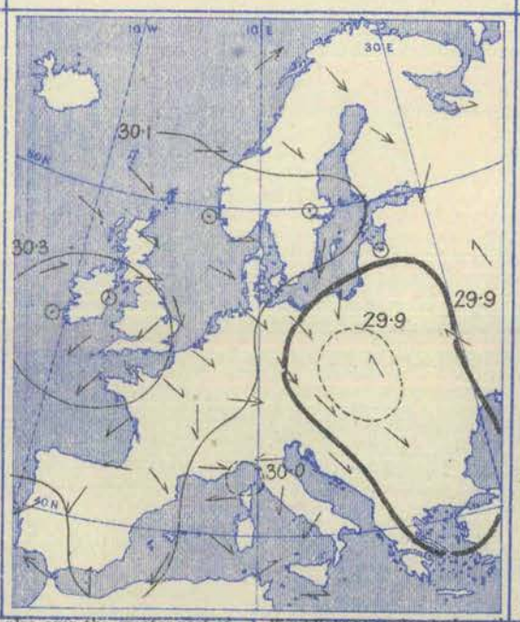
Temperature and Weather. 8 a.m.



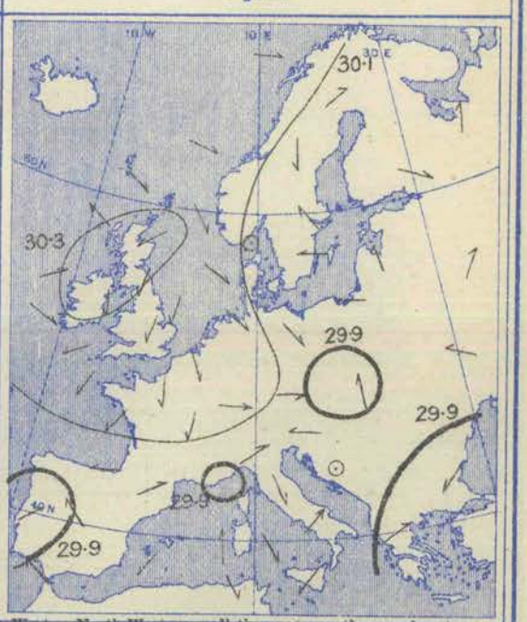
Weather in morning fine in the eastern parts of our Islands, and also over the greater part of the Continent. Dull on our western coasts, with fog in places; rainy over Austria and south Germany. Slight rain falling later in the west of Scotland, and also in the west of Norway, and further large quantities in many parts of Germany and Austria—as much as 1·4 ins. at Munich.

Temperature changed rather irregularly. Morning readings highest, 79° at Lisbon and San Fernando, 77° at Algiers, and 76° at Palermo; above 70° over southern Europe generally, as well as at one or two of the Baltic stations. Lowest, (1) 52° at Bodö, 54° at Sumburgh Head, and 56° at Stornoway; (2) 53° at Münster and Belfort, and 54° at Munich. Rising during day to 80° or slightly above in many parts of Great Britain; exceeding 85° in several parts of southern Europe, and reaching 100° at Madrid.

Barometer and Wind. 8 a.m.



6 p.m.

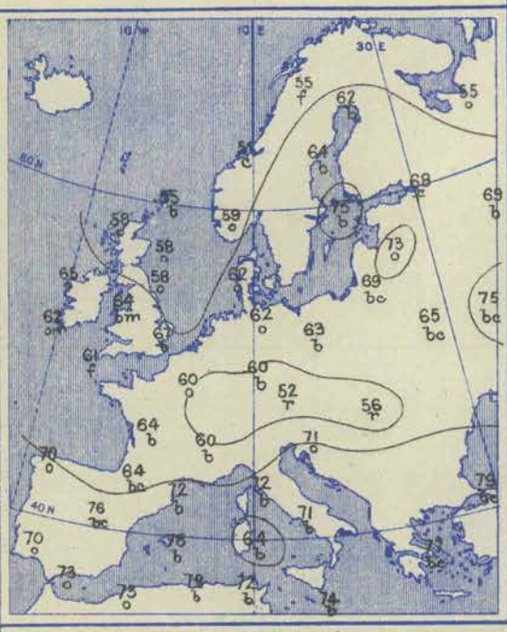


Wind light to moderate from the West or North-West over all the more northern and eastern parts of the United Kingdom, as well as in Denmark, Germany, and the Netherlands; Northerly or North-Easterly over France, Spain, Italy, and the south-west of our Islands. South-Westerly on the north of Scandinavia, but North-Westerly in Finland; light from the East or South-East over eastern Austria and the south of Russia. Subsequently shifting to the North-East on many parts of our own northern and eastern coasts; no important change occurring elsewhere.

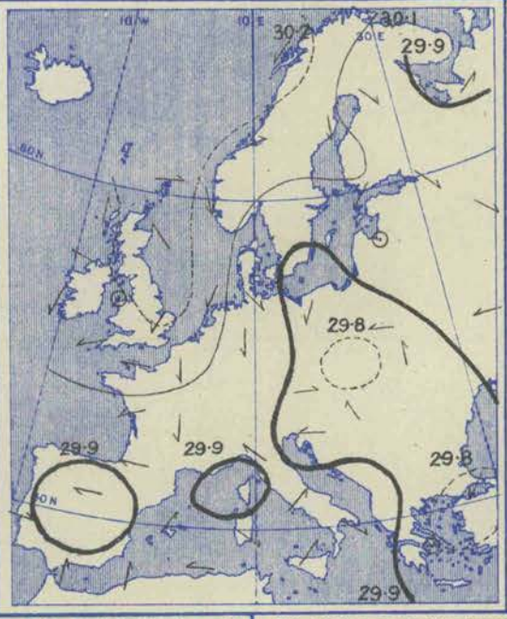
Barometer highest, 30·3 ins. and upwards over Ireland, England, and the north-west of France; 30·2 ins. and upwards in an anticyclone covering the greater part of western Europe. Lowest, 29·8 ins. and less in a well-marked depression lying over Austria; 30·0 ins. and less in another disturbance over the south-western parts of the Spanish peninsula and also over the extreme north of Russia. Anticyclone extendng northwards during day; depression over Austria moving slowly north-eastwards and partially filling up.

Saturday, 31st July.

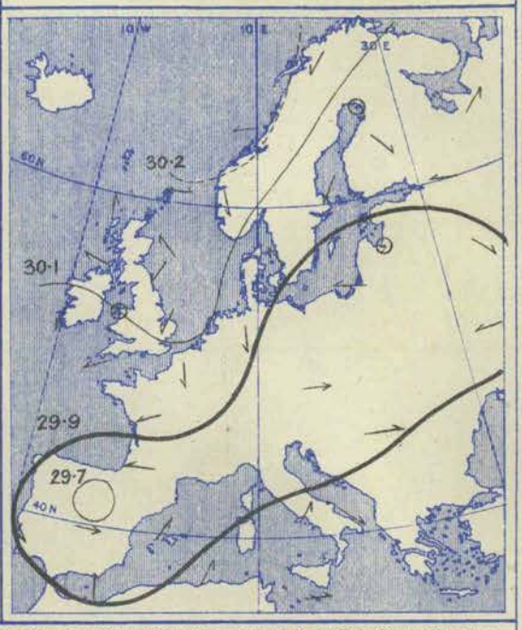
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning cloudy or dull over the more northern parts of the United Kingdom and also over the Netherlands and the north-east of France; rainy in Austria and South Germany as well as at Wisby. Fine in most other parts of Europe, but dull in the western and southern parts of the Spanish peninsula. Sky clearing later at many of our own northern stations. Slight rain falling in several parts of Belgium, Germany, Austria, and the south of France, and a large amount (2·0 ins.) at Kiev. Thunderstorm occurring at Biarritz.

Temperature changed very irregularly. Morning readings highest, (1) 82° at Sfax, 80° at Barcelona, 79° at Constantinople and 78° at Palma and Algiers; (2) 75° at Stockholm and 73° at Memel; touching 70° at Hurst Castle and very little below it at some of the other English Channel stations. Lowest, (1) 51° at Christiansund and 55° at Bodö and Sumburgh Head; (2) 52° at Munich, 56° at Buda Pesth and 57° at Vienna. Rising during day to between 70° and 75° in many parts of the United Kingdom, and to 79° at Parsonstown. Exceeding 80° in the west of France, and exceeding 85° in several parts of southern Europe, the highest reading of all being 102° at Bilbao.

Wind light from the Northward or North-Eastward in most parts of Great Britain and France; rather variable in Ireland, but chiefly Easterly or South-Easterly. Northerly (North-Westerly to North-Easterly) over Finland, Scandinavia, Denmark, and North Germany; Westerly in south Germany. Light and variable over southern Europe generally. No important change occurring over western Europe during day.

Barometer highest, 30·2 ins. and upwards in an anticyclone extending from the northward over all but the southern and south-western parts of Great Britain, 30·0 ins. and upwards over Algeria and the neighbouring parts of the Mediterranean. Lowest, 29·8 ins. and less in a small shallow depression over the north-east of Austria, and also in a larger disturbance over the extreme south-eastern parts of Europe; 29·9 ins. and less in the extreme north of Russia, and also in a depression over the Spanish peninsula. Spanish depression subsequently moving slightly northward; barometer falling in most parts of western Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: · → = a heavy gale → = a gale; → = a fresh to strong breeze; → = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Over our Islands and the neighbouring parts of the Continent the weather in the early part of the week was influenced partly by a well-marked depression, the centre of which moved slowly eastwards along the north of Scotland, and to a greater extent by numerous secondary disturbances which passed directly across Ireland, England, and the North Sea. The prevailing winds were therefore Westerly (South-Westerly to North-Westerly) and the weather very changeable, with frequent showers and thunderstorms. In the southern and eastern parts of the Continent the weather was at the same time very fine and warm.

Towards the middle of the week a great change took place. In our Islands the weather came under the influence of a large anticyclone, which spread up from the south-westward, and which finally embraced nearly the whole of north-western Europe. A marked improvement in the weather was consequently reported in these regions, with light breezes and a gradual rise of temperature. Over the central and south-eastern parts of the Continent, however, the conditions were affected by a series of complex depressions, which appear to have been formed over Austria, Italy, and the Adriatic. These disturbances occasioned unusually heavy and disastrous falls of rain in many parts of Austria and south Germany, the aggregate amount at Vienna for the four days ending with the morning of the 31st being as much as 6·4 ins., of which rather more than half fell on the 29th alone.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 176.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	51·0	+19·7	46	+18	EASTBOURNE	47·4	− 1·6	44	− 1
OSWALDKIRK (Yorkshire)	49·5	+15·4	45	+15	VENTNOR	54·1	?	51	?
WORKSOP	49·9	+14·4	46	+14	SOUTHPORT	55·0	?	50	?
THURCASTON (Leicestershire)	59·1	+22·3	54	+21	COLWYN BAY	50·1	?	46	?
MARGATE	41·0	− 2·2	38	− 2	NEWQUAY	47·4	+ 1·6	45	+ 2
WESTBOURNE (Sussex)	55·2*	+ 8·0	52*	+ 8	TORQUAY	52·5*	+ 6·7	50*	+ 8
BRIGHTON	53·3	+ 4·8	50	+ 5	GUERNSEY	59·7*	+ 6·5	56*	+ 6

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV NO. 31.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 7TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 182.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	83	48	69·5	54·6	61·6	7 above	137	+51	0	0	1237	+163	615	- 8
	1. SCOTLAND, EAST -	83	48	72·2	54·7	62·9	6 above	146	+43	0	0	1407	+ 75	661	+ 12
	2. ENGLAND, N.E. -	88	43	73·8	54·3	63·4	5 above	150	+35	0	0	1520	+130	471	- 78
	3. ENGLAND, EAST -	90	48	76·7	56·2	65·8	5 above	167	+40	0	0	1876	+227	493	-124
	4. MIDLAND COUNTIES	90	43	79·8	53·4	65·8	6 above	167	+46	0	0	1874	+205	504	-115
	5. ENGLAND, SOUTH -	88	50	75·2	59·0	66·6	5 above	172	+39	0	0	2062	+277	297	-180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	83	48	73·1	56·7	64·4	7 above	157	+51	0	0	1528	+122	441	- 21
	7. ENGLAND, N.W. -	85	50	75·9	57·9	66·4	7 above	171	+55	0	0	1709	+203	367	- 92
	8. ENGLAND, S.W. -	87	47	73·6	57·1	64·8	5 above	160	+39	0	0	1985	+290	223	-138
	9. IRELAND, NORTH -	81	46	70·5	56·1	62·9	5 above	146	+40	0	0	1593	+ 89	403	+ 8
	10. IRELAND, SOUTH -	79	49	70·5	57·8	63·8	5 above	153	+38	0	0	1917	+201	242	- 57
	—CHANNEL ISLANDS-	82	55	71·2	59·8	65·2	4 above	162	+29	0	0	2239	+344	68	- 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 182.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	4	4	5 less	130	- 9	22·3	- 3·8	26	+ 3	24	+ 3	877	+118	31	+ 5
	1. SCOTLAND, EAST -	4	10	3 more	119	+ 6	17·0	- 0·2	41	+ 9	37	+ 8	922	+ 51	32	+ 2
	2. ENGLAND, N.E. - -	2	4	3 less	106	0	13·0	- 1·2	70	+35	65	+34	1002*	+140	35	+ 5
	3. ENGLAND, EAST -	2	3	3 less	105	+ 2	12·7	- 1·4	72	+29	68	+28	1099	+ 88	39	+ 3
	4. MIDLAND COUNTIES	2	7	0 (average)	104	+ 3	15·8	+ 0·3	74	+36	69	+33	1054	+141	37	+ 5
	5. ENGLAND, SOUTH -	2	3	4 less	96	- 1	15·7	+ 0·3	63	+18	60	+18	1134	+ 79	40	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	3	4	6 less	128	+ 9	23·6	- 2·2	48	+ 8	44	+ 8	958	+ 21	33	+ 1
	7. ENGLAND, N.W. -	3	5	3 less	120	+11	17·7	- 0·1	64	+24	59	+22	1052	+ 99	36	+ 3
	8. ENGLAND, S.W. - -	3	10	1 more	122	+12	23·9*	+ 3·6	69	+26	66	+25	1126	+ 22	40	+ 1
	9. IRELAND, NORTH -	3	4	5 less	137	+ 9	23·2	+ 3·0	35	+ 7	33	+ 7	861	+ 1	30	0
	10. IRELAND, SOUTH -	3	7	1 less	129	+12	24·6	+ 3·2	40	+ 8	37	+ 7	915	- 52	32	- 2
	— CHANNEL ISLANDS-	3	6	1 more	131	+15	19·4	+ 2·5	58	+ 1	56	+ 2	1162	- 76	42	- 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was generally very fine and bright during the earlier half of the week, although sharp thunderstorms were experienced in the extreme north either on the 1st or 2nd. Towards the end of the period unsettled conditions, with severe thunderstorms, set in in nearly all parts of the Kingdom.

Temperature was again above the mean, the excess ranging from 4° in the Channel Islands to as much as 7° in Scotland N. and W. and England N.W. The highest of the maxima were recorded either on the 4th or 5th, when they ranged from 90° in England E. and the Midland counties (at Cambridge and Bawtry), and 88° in England S. and N.E. to 81° in Ireland N., and to 79° in Ireland S. The lowest of the minima, which occurred, as a rule, on the 1st, ranged from 43° in England N.E. and the Midland counties, and from 46° in Ireland N. to 50° in England S. and N.W., and to 55° in the Channel Islands.

Rainfall somewhat exceeded the mean in Scotland E., England S.W., and the Channel Islands, and just equalled it in the Midland counties; in all other districts, however, there was a deficit. The falls experienced with the thunderstorms of the latter part of the week were very variable.

Bright Sunshine exceeded the mean in all parts of the Kingdom, the excess being large over England, but small over Ireland and Scotland. The percentage of the possible duration ranged from 59° to 69° over England, from 24 to 44 in Scotland, and from 33 to 37 in Ireland.

Barometer and Wind.—During the earlier part of the week the distribution of pressure over our Islands was generally anticyclonic, and the winds light from the Northward or North-Eastward. As the week progressed, however, the high pressure system moved gradually away to the eastward, the wind shifted to the Southward, and depressions advanced over us from the Westward. At the end of the week these were moving away over the North Sea and the wind in the north had veered to the Northward; but a fall of the barometer and South-Easterly winds in the extreme south-west indicated the approach of other disturbances from the Atlantic.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 181 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	65	51	62·3	53·0	57·4	+ 4·0	108	0	4	0·33	− 0·36	*	*	*	*
	Stornoway	75	50	67·7	53·7	60·3	+ 5·6	128	0	4	0·47	− 0·31	37·3	+ 9·3	33	+ 8
	Wick	72	48	67·6	52·7	59·7	+ 5·6	124	0	4	0·27	− 0·35	*	*	*	*
	Lairg 𝔖	83	49	74·4	54·4	63·8	+ 9·5	153	0	3	0·31	− 0·43	*	*	*	*
	Glencarron 𝔖	78	51	71·1	54·6	62·3	+ 7·6	142	0	3	0·44	− 1·08	*	*	*	*
	Fort Augustus 𝔖	81	53	72·7	56·2	64·0	+ 7·4	154	0	4	0·87	+ 0·08	18·5	+ 1·8	17	+ 2
	Fort William 𝔖	77	52	70·6	57·9	63·9	+ 6·9	153	0	3	0·27	− 1·08	23·0	+ 0·3	21	0
1. SCOTLAND, E.	Nairn	76	50	70·3	53·9	61·6	+ 4·2	137	0	4	0·56	− 0·16	*	*	*	*
	Aberdeen	71	52	68·3	55·0	61·3	+ 4·4	135	0	4	0·35	− 0·45	43·3	+ 9·2	39	+ 9
	Braemar 𝔖	76	50	71·8	53·7	62·2	+ 8·0	141	0	5	1·41	+ 0·66	29·0†	+ 1·3†	26†	+ 1†
	Ochtertyre 𝔖	83	48	76·0	54·6	64·7	+ 6·8	159	0	3	1·86	+ 0·96	*	*	*	*
	Leith	75	55	70·4	56·4	63·0	+ 4·2	147	0	3	1·58	+ 0·88	*	*	*	*
	Marchmont 𝔖	82	51	76·3	54·4	64·7	+ 8·3	159	0	3	0·48	− 0·40	56·3	+22·0	52	+20
2. ENGLAND, N.E.	Alnwick Castle	75	43	71·9	51·7	61·2	+ 4·2	134	0	1	0·40	− 0·35	*	*	*	*
	Durham	85	45	79·2	53·4	65·5	+ 6·5	165	0	2	0·63	− 0·14	66·1	+31·9	61	+30
	Shields	75	50	69·3	55·4	61·9	+ 4·0	139	0	2	0·49	− 0·19	*	*	*	*
	Scarborough 𝔐	84	49	72·0	54·2	62·6	+ 3·6	144	0	1	0·05	− 0·66	*	*	*	*
	York	88	47	81·1	53·7	66·6	+ 7·2	172	0	2	0·55	− 0·13	71·5	+35·7	66	+33
	Spurn Head	76	54	69·3	57·1	62·8	+ 3·1	146	0	3	0·16	− 0·31	*	*	*	*
3. ENGLAND, E.	Hillington 𝔐	87	53	78·6	56·6	66·9	+ 6·3	174	0	2	0·27	− 0·47	71·7	+30·5	67	+29
	Yarmouth	72	55	68·9	59·3	63·8	+ 3·1	153	0	2	0·47	− 0·18	*	*	*	*
	Geldeston	80	55	75·8	57·7	66·2	+ 5·5	169	0	2	0·18	− 0·42	75·5	+30·8	71	+29
	Cambridge	90	49	82·4	54·1	67·4	+ 6·0	178	0	3	0·51	− 0·09	75·6	+33·5	71	+33
	Rothamsted	84	48	77·8	53·1	64·7	+ 4·3	159	0	2	0·27	− 0·38	66·8	+22·1	63	+21
4. MIDLAND COUNTIES	Harrogate															
	Bawtry (Hesley Hall)	90	43	83·7	50·3	66·0	+ 5·9	168	0	1	0·38	− 0·24	*	*	*	*
	Loughborough	89	46	81·4	54·3	67·0	+ 5·8	175	0	2	0·18	− 0·39	*	*	*	*
	Stamford (Duddington)	89	47	81·3	54·6	67·2	+ 5·8	176	0	2	0·87	+ 0·24	*	*	*	*
	Cheadle 𝔐	84	48	77·7	55·0	65·7	+ 7·8	166	0	1	1·38	+ 0·60	*	*	*	*
	Shirley (near Solihull)	86	47	78·4	52·8	64·8	+ 4·4	160	0	3	0·77	?	*	*	*	*
	Churchstoke 𝔐	84	44	79·0	51·4	64·4	+ 6·2	157	0	1	0·37	− 0·28	75·4	+38·4	70	+36
	Hereford 𝔐	86	47	80·5	54·4	66·7	+ 6·5	173	0	2	0·56	− 0·02	*	*	*	*
	Cirencester	84	47	77·7	53·1	64·7	+ 5·8	159	0	3	0·82	+ 0·05	66·2	+25·3	62	+24
	Oxford	86	50	78·1	54·9	65·8	+ 5·0	167	0	3	0·49	− 0·13	74·1	+32·1	70	+30
5. ENGLAND, S.	London	88	52	81·3	57·4	68·6	+ 6·4	186	0	1	0·01	− 0·59	68·2†	+29·4†	64†	+26†
	North Foreland	79	57	72·0	60·0	65·6	+ 4·6	165	0	2	0·35	?	*	*	*	*
	Dungeness	78	56	71·3	59·6	65·1	+ 3·4	162	0	2	0·32	− 0·18	*	*	*	*
	Hastings (St. Leonards)	81	54	74·2	58·7	66·0	+ 4·5	168	0	2	0·10	− 0·53	62·6	+13·8	60	+14
	Southampton	84	53	78·2	58·4	67·7	+ 5·6	180	0	3	0·38	− 0·32	71·5	+25·5	68	+25
	Hurst Castle	82	56	74·1	61·3	67·3	+ 5·0	177	0	2	0·41	− 0·19	*	*	*	*
	Shaftesbury 𝔐	80	50	75·0	57·3	65·6	+ 6·5	165	0	2	0·25	− 0·45	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	78	52	73·1	58·3	65·3	+ 8·5	163	0	3	0·58	− 0·69	*	*	*	*
	Glasgow	78	55	72·4	57·3	64·4	+ 7·4	157	0	3	0·72	− 0·18	21·0	− 8·8	19	− 8
	Ardrossan	75	56	71·3	58·3	64·4	+ 6·5	157	0	2	0·06	− 0·77	*	*	*	*
	Glenlee 𝔖	79	50	75·0	53·4	63·6	+ 6·3	151	0	3	0·52	− 0·60	*	*	*	*
	Gilcrux	83	52	75·0	58·7	66·4	+ 9·4	171	0	3	0·28	?	57·3	?	53	?
	Douglas (Isle of Man)	76	48	72·0	53·9	62·4	+ 5·2	143	0	2	0·04	− 0·81	65·7	+25·0	61	+24
7. ENGLAND, N.W.	Stonyhurst	81	50	76·1	56·7	65·8	+ 7·4	167	0	3	1·16	− 0·01	59·9	+25·7	55	+24
	Blackpool 𝔐															
	Manchester (Prestwich)	84	51	77·7	56·7	66·6	+ 7·6	172	0	3	0·70	− 0·24	59·2	?	55	?
	Liverpool Obsy. (Bidston)	84	55	77·7	59·1	67·8	+ 8·1	181	0	4	0·39	− 0·38	*	*	*	*
	Llandudno 𝔐	85	55	77·0	59·1	67·5	+ 6·9	179	0	2	0·09	− 0·57	*	*	*	*
	Holyhead	80	56	71·0	58·0	64·1	+ 4·9	155	0	3	0·19	− 0·46	*	*	*	*
8. ENGLAND, S.W.	Llandovery	87	47	80·4	55·0	66·9	+ 7·7	174	0	3	1·36	+ 0·28	*	*	*	*
	Pembroke	73	56	69·6	59·1	64·0	+ 5·0	154	0	3	0·59	− 0·11	72·2	+30·3	68	+28
	Clifton	85	51	77·2	59·2	67·7	+ 6·1	180	0	2	1·03	+ 0·14	*	*	*	*
	Arlington (N. Devon)	80	50	74·3	54·3	63·7	+ 5·2	152	0	3	1·39	+ 0·11	*	*	*	*
	Cullompton 𝔐	81	50	76·3	54·7	64·9	+ 4·5	160	0	3	1·29	+ 0·60	63·4	+25·0	60	+24
	Falmouth	74	56	70·4	58·5	64·1	+ 3·4	155	0	3	0·70	− 0·13	68·5	+22·9	66	+23
	Plymouth	79	55	71·9	58·0	64·5	+ 3·1	158	0	3	1·23	+ 0·46	73·5	+31·3	71	+31
	Prawle Point	73	55	68·3	57·9	62·8	+ 3·1	146	0	2	0·35	− 0·30	*	*	*	*
9. IRELAND, N.	Malin Head	75	53	67·6	56·9	61·9	+ 4·5	139	0	3	0·35	?	*	*	*	*
	Londonderry	81	53	74·8	57·2	65·5	+ 7·4	165	0	4	0·94	− 0·01	*	*	*	*
	Edenfel (Omagh)	78	54	71·6	57·4	64·1	+ 7·4	155	0	2	0·35	− 0·59	*	*	*	*
	Belmullet	76	51	69·0	55·6	61·9	+ 3·8	139	0	2	0·52	− 0·56	*	*	*	*
	Markree Castle	76	48	70·0	56·3	62·7	+ 5·4	145	0	4	0·76	− 0·21	28·6	+ 2·6	26	+ 1
	Armagh	76	50	71·6	54·8	62·7	+ 5·1	145	0	2	0·37	− 0·38	41·6	+14·4	39	+14
	Donaghadee	71	46	66·9	53·4	59·8	+ 2·3	125	0	1	0·04	− 0·72	*	*	*	*
	Edgeworthstown	76	52	72·5	57·1	64·3	+ 6·8	156	0	2	0·19	− 0·83	*	*	*	*
10. IRELAND, S.	Dublin	77	54	71·9	57·5	64·3	+ 4·8	156	0	2	0·91	+ 0·17	62·5	+27·7	58	+26
	Parsonstown	79	53	72·6	57·4	64·5	+ 6·2	158	0	2	0·37	− 0·52	39·3	+11·0	37	+10
	Kilkenny	79	49	72·7	56·0	63·9	+ 5·0	153	0	3	1·04	+ 0·34	*	*	*	*
	Roche's Point	70	51	68·3	58·7	63·2	+ 3·6	148	0	4	0·60	− 0·28	*	*	*	*
	Valencia	75	51	69·1	58·0	63·2	+ 4·3	148	0	4	0·91	− 0·11	17·6	−15·1	17	−14
	Killarney	76	57	69·8	59·9	64·3	+ 5·5	156	0	4	0·88	?	*	*	*	*
	Foynes	74	50	69·3	57·3	62·9	+ 4·8	146	0	4	0·45	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	74	58	70·6	59·6	64·8	+ 4·1	160	0	4	0·59	− 0·06	65·6	?	63	?
	Jersey	82	55	71·7	60·0	65·5	+ 2·8	165	0	1	0·58	− 0·07	50·9	− 1·7	49	− 2

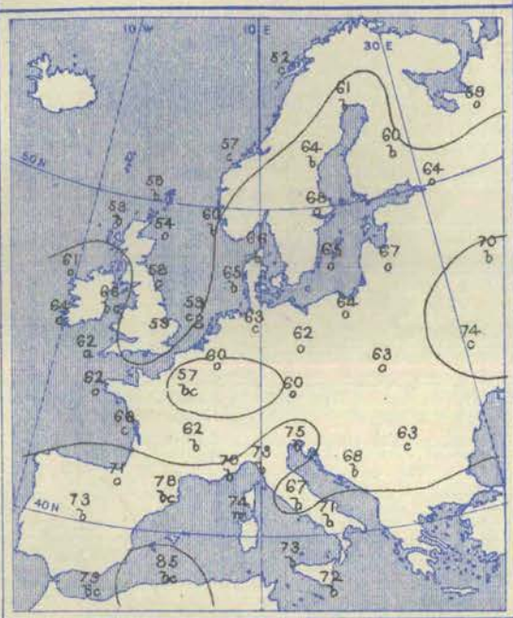
Stations marked 𝔐 are in connection with the Royal Meteorological Society, and those marked 𝔖 with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

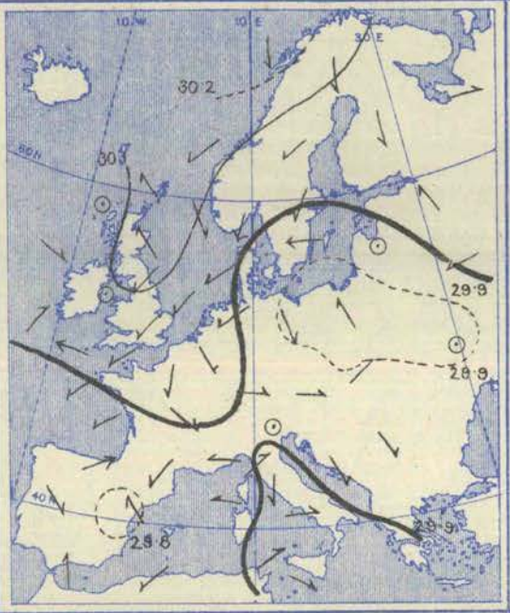
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 1st August.

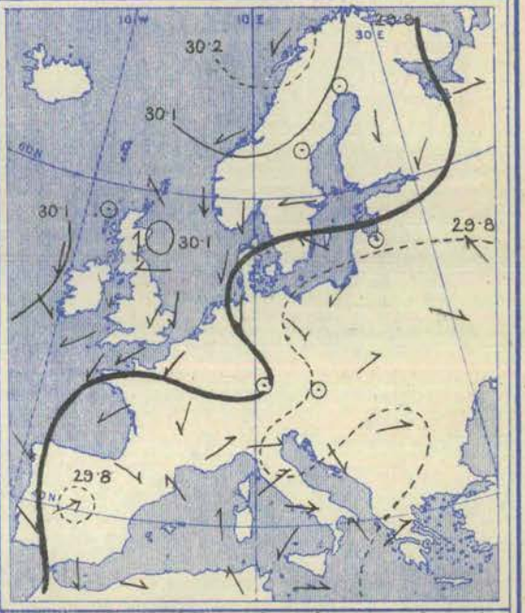
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine over the central parts of our Islands, as well as over the greater part of the Continent. Cloudy and misty at several of our own southern, western, and extreme northern stations; dull over the Baltic, Germany, and Austria, with rain at Buda Pesth. Thunder and rain occurring later in the north of Scotland, and lightning seen at Lyons. Rain falling at several of the German and Austrian stations.

Temperature fallen over western and nothern Europe generally, but risen in many parts of the central and southern countries. Morning readings highest, 85° at Algiers, 79° at Nemours, 78° at Barcelona and 76° at Aran; above 70° over southern Europe as a whole, and very little below it in the south of Sweden. Lowest, (1) 52° at Bodö, 54° at Aberdeen and 56° at Oxford; (2) 55° at Belfort and 57° at Paris. Daily maxima, below 65° on several parts of our east coasts, but thermometer exceeding 75° in the more central districts, and reaching 79° at Loughborough. Exceeding 80° over southern Europe generally; the highest reading of all being 93° at Gap and Madrid.

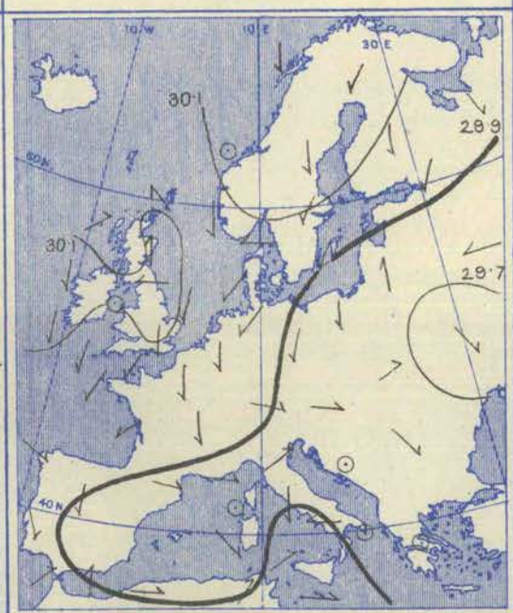
Wind light to moderate from the Northward or North-Eastward over the eastern and central parts of England as well as in Scandinavia, Denmark, the Netherlands, and the north of France; South-Easterly or Southerly at most of the Irish and Scotch stations, but Westerly in the extreme north-west of Ireland. Calm or light from the Westward in Austria; variable over Italy and the south of France; North-Westerly over central Spain. Subsequently shifting to the Northward on our own north-west coasts; North-Westerly breezes setting in over the western parts of the Spanish Peninsula.

Barometer highest, 30·2 ins. and upwards in the north-west of Norway; 30·1 ins. and upwards in a long band extending thence over the northern parts of the North Sea, the east and south of Scotland, and the extreme north of England. Lowest, 29·8 ins. and less in a large and somewhat complex depression lying over eastern Germany and the neighbouring parts of Russia and Austria, as well as in a small disturbance off the east coasts of Spain. Depression over eastern Europe subsequently increasing in size, but remaining quite shallow.

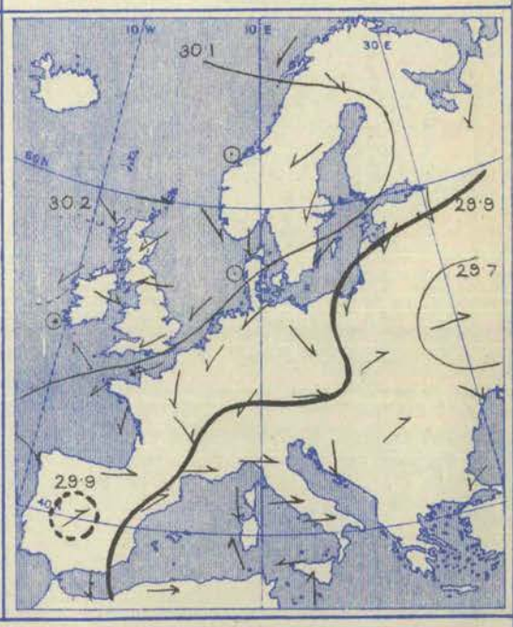
Monday, 2nd August.

Temperature and Weather. — 8 a.m.

Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but dull in places; fog or mist reported on several parts of our own western coasts, and thunderstorms in the north of Scotland. Dull in Poland and Austria, with rain at Vienna, and also at Constantinople. A little rain falling later in the north and east of Scotland, as well as at several of the Scandinavian stations, and in the southern parts of France and Germany. Further thunderstorms occurring in the north of Scotland, and also at some of the French stations.

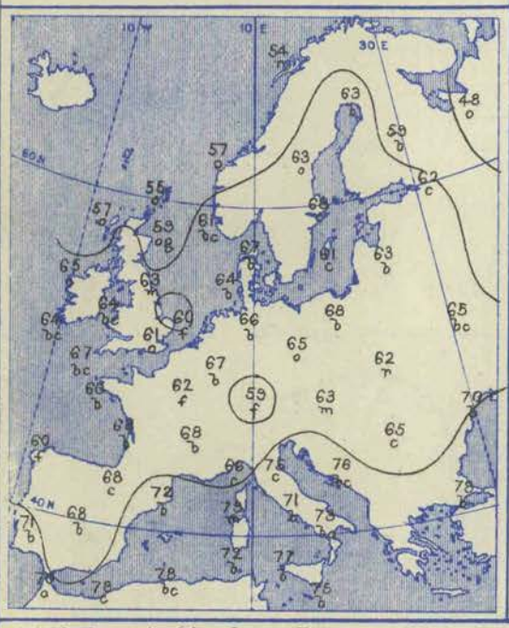
Temperature risen a little in most places. Morning readings highest, 83° at Algiers, 82° at La Calle, 80° at Athens, and 78° at Brindisi; above 70° over southern Europe generally, and also at Liverpool; above 65° in Denmark and the south of Scandinavia. Lowest, (1) 53° at Bodö. 54° at Archangel, and 55° at Christiansund; (2) 56° at Oxford, and 58° in London. Rising during day to between 80° and 85° over the inland parts of England; exceeding 85° in many parts of southern Europe, and reaching 99° at Gap and Cape Béarn.

Wind light from between North and East over Ireland, England, and the western and northern parts of the Continent generally, but Southerly in the north and east of Scotland. Westerly over south Germany and Austria, and also in the extreme south of France; variable in Italy; Northerly or North-Westerly over the Spanish Peninsula. Subsequently becoming very variable in the south-west of our Islands; North-Westerly breezes setting in over the Irish Sea and the west of Scotland.

Barometer highest, 30·1 ins. and upwards in two large areas—one embracing a considerable portion of our Islands, and the other lying over Scandinavia. Lowest, 29·7 ins. and less in a very large, but shallow, depression over the south of Russia. The two high pressure areas uniting later, and barometer rising slowly over western Europe generally.

Tuesday, 3rd August.

Temperature and Weather. — 8 a.m.

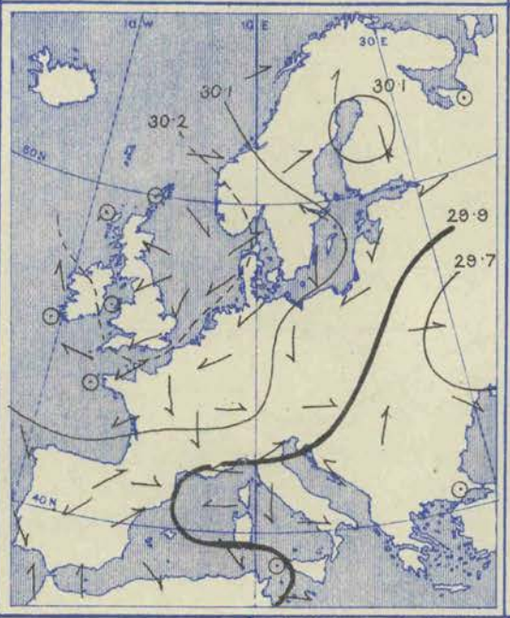


Weather in morning fair or fine over Europe as a whole, but foggy on several parts of our own coasts, as well as at Cape Gris Nez, Paris, and Munich. Dull in the north of Scotland, and also in many parts of Scandinavia, with rain at Bodö, as well as at Breslau and Lemberg. No important change occurring over western Europe during day, but solar halo seen at Malin Head. Rain falling in many parts of Italy.

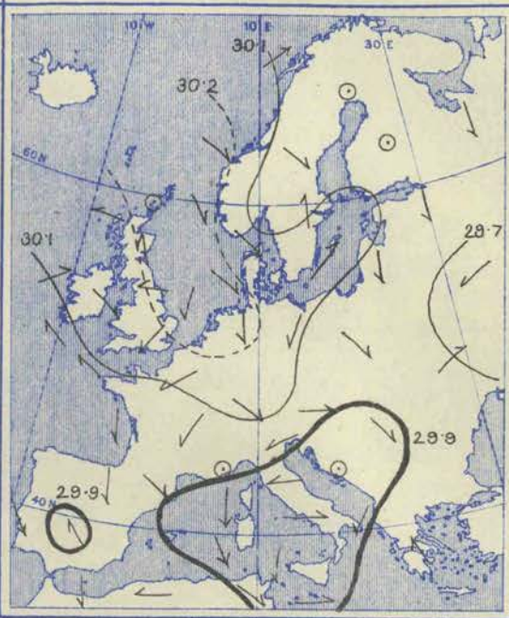
Temperature risen in most places, but fallen on the east coasts of Great Britain, as well as at many of the Russian and Austrian stations. Morning readings highest, 84° at Sfax, 79° at Algiers, and 78° at Nemours and Constantinople; above 70° in many parts of southern Europe, as well as at Jersey and Liverpool, and very little below it in the south of Sweden. Lowest, (1) 48° at Archangel; (2) 54° at Bodö, and 55° at Sumburgh Head and Spurn Head. Daily maxima below 65° on our own northern and north-eastern coasts, but thermometer exceeding 80° over the inland parts of England, and reaching 86° at Cambridge. Exceeding 90° in some parts of southern Europe, and touching 95° at Cape Béarn.

Barometer and Wind.

8 a.m.



6 p.m.

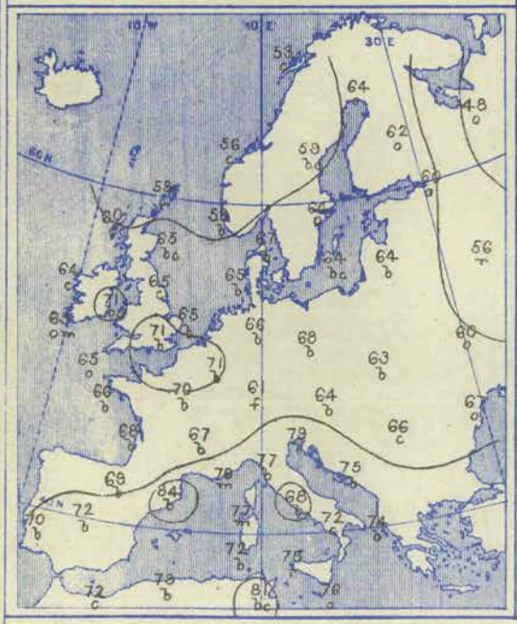


Wind light from the North-Eastward or Eastward over the greater part of our Islands, France, the Netherlands, Denmark, and the Baltic, but South-Easterly or Southerly in the west and south of Ireland, and calm in the north of Scotland. Westerly or South-Westerly over the northern parts of Scandinavia; North-Westerly or Westerly over Austria and the southern parts of Germany and Russia; variable in Italy; Westerly in the extreme south of France; Northerly or North-Westerly in the western parts of the Spanish Peninsula. Subsequently shifting to the North or North-West in the west of France; no important change occurring elsewhere.

Barometer highest, 30·2 ins. to 30·3 ins. over Great Britain, the North Sea, and the south-western parts of Norway; 30·0 ins. and upwards in an anticyclone embracing nearly the whole of western, central, and northern Europe. Lowest, 29·6 ins. and less in a depression over the south of Russia. Slight fall of barometer taking place over the western countries during day, but general distribution of pressure remaining unchanged. Shallow depression forming over central Spain in evening.

Wednesday, 4th August.

Temperature and Weather. — 8 a.m.

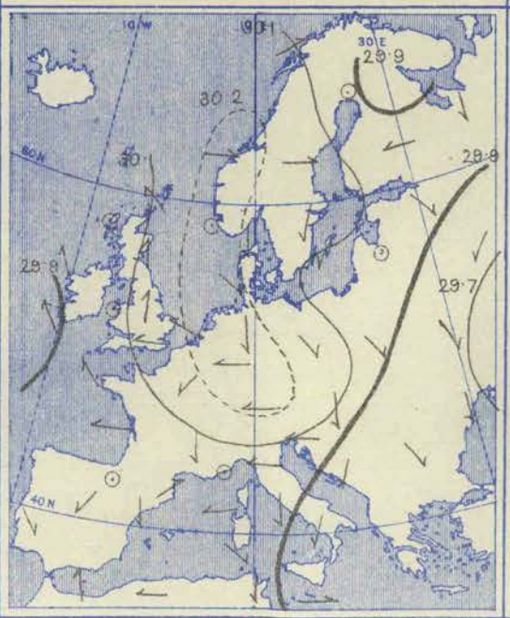


Weather in morning fine over Europe as a whole, but foggy or misty on several parts of our own western and northern coasts. Dull at many of the Russian stations, and also in the extreme northern and southern parts of Italy, with rain at Moscow and Palermo. Showers falling later at some of our western stations, with thunder and lightning at Holyhead. Thunderstorms occurring at night over nearly the whole of Scotland, and lightning seen over the western parts of the English Channel.

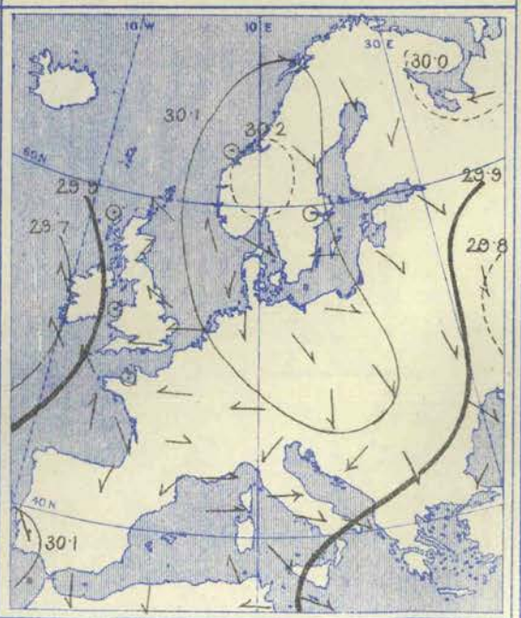
Temperature risen in our Islands and the neighbouring parts of the Continent, as well as in Austria and Finland; fallen in most other localities. Morning readings highest, 84° at Barcelona, 82° at Athens, 81° at Sfax, and 79° at Trieste; above 70° over southern Europe generally, as well as at many of the English stations. Lowest, (1) 48° at Archangel, and 56° at Moscow; (2) 53° at Bodö, 56° at Christiansund, and 57° at Leith. Rising during day to 85° and upwards in many parts of England, France, and southern Europe; reaching 90° at Cambridge and Nice, and 91° at Bordeaux and Le Mans.

Barometer and Wind.

8 a.m.



6 p.m.



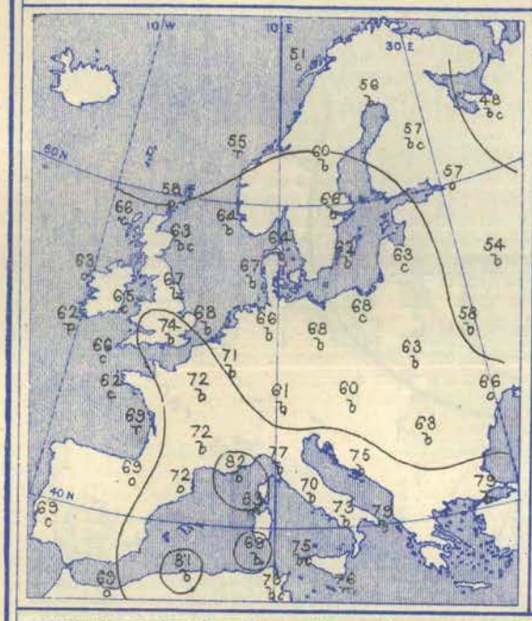
Wind light from the East or South-East over our Islands and the neighbouring portions of the Continent generally, but calm in the north of Scotland. South-Westerly or Westerly over the northern parts of Scandinavia; variable over northern Russia; light from the Northward (North-West to North-East) over all the more central and southern parts of the Continent, but Westerly in the south of Italy. Subsequently shifting to the Northward in the west of France; no important change occurring elsewhere.

Barometer highest, 30·1 ins. to 30·2 ins. and upwards in an anticyclone covering nearly the whole of Scandinavia, Denmark, Germany, the Netherlands, and the eastern parts of our Islands. Lowest, 29·6 ins. and less in a depression over the south of Russia; 29·9 ins. and less in another system lying to the west of Ireland, and also in a small disturbance over Lapland. Irish depression subsequently spreading eastwards, and barometer falling over western Europe generally.

Thursday, 5th August.

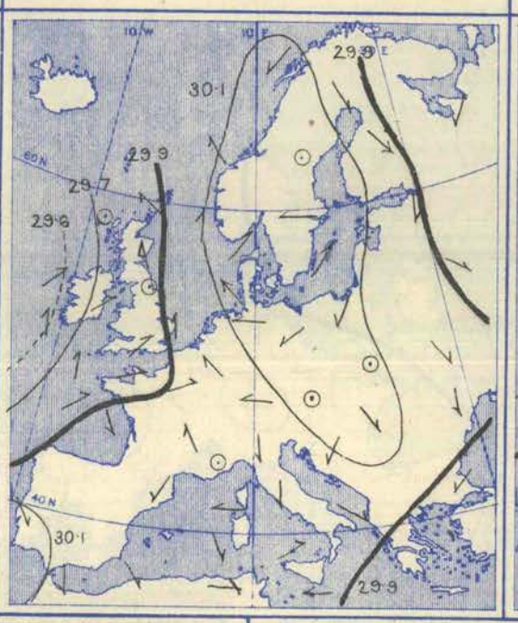
Temperature and Weather.

8 a.m.

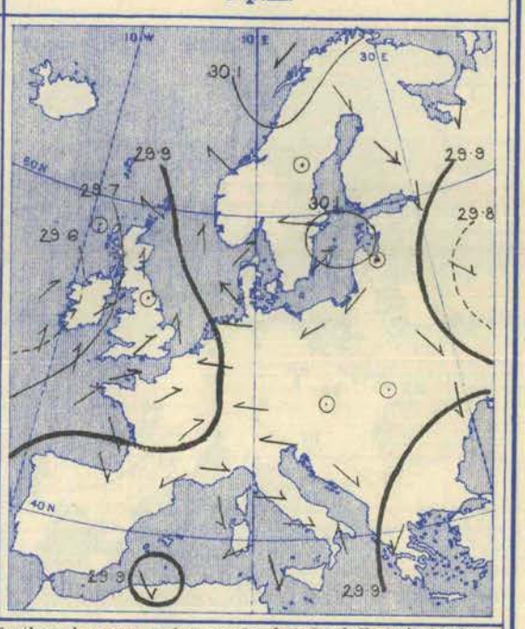


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of our Islands and the Continent, but showery at Valencia (Ireland), and dull in the west of France, with rain at Rochefort; thunderstorm reported at Turin. Thunderstorms occurring later in nearly all parts of Great Britain, and also in France and Belgium, with heavy falls of rain and hail in places. Solar halo seen at Oxford.

Temperature risen over Great Britain and France, and also in the south of Scandinavia; fallen in most other localities. Morning readings highest, 83° at Sanguinaire, 82° at Toulon, 81° at Algiers, and 79° at Brindisi and Sfax; above 70° in many parts of England, France, and the Netherlands. Lowest, 48° at Archangel, 51° at Bodö, 54° at Moscow, and 55° at Christiansund. Rising during day to 80° and upwards in Denmark and Germany, to 85° and upwards in many parts of England and France, to 90° at Cambridge, and to 93° at Dunkirk and Gap.

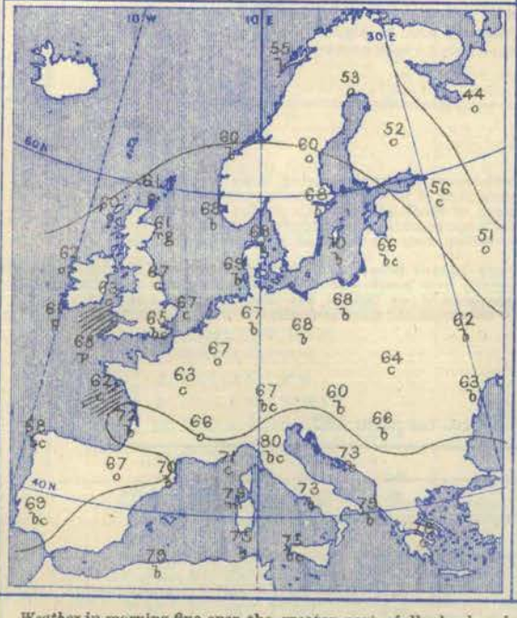
Wind light to fresh from the Southward on our western coasts, but South-Easterly in the eastern and central parts of the United Kingdom, as well as over the Netherlands, Germany, and the eastern shores of the North Sea. Westerly (South-Westerly to North-Westerly) over the Bay of Biscay and the Spanish Peninsula, variable in Italy and the south of France. Northerly over Russia and the northern parts of Sweden, but South-Westerly in the south of Sweden. Subsequently veering to the South-Westward in the south of England. No important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in a large anticyclone covering Scandinavia, Denmark, Germany, and Austria, and also in another system lying to the southward of the Spanish Peninsula. Lowest, 29·6 ins. and less in a depression lying off the west of Ireland. Small secondary systems advancing over our Islands later from the southward; and barometer falling over western Europe generally.

Friday, 6th August.

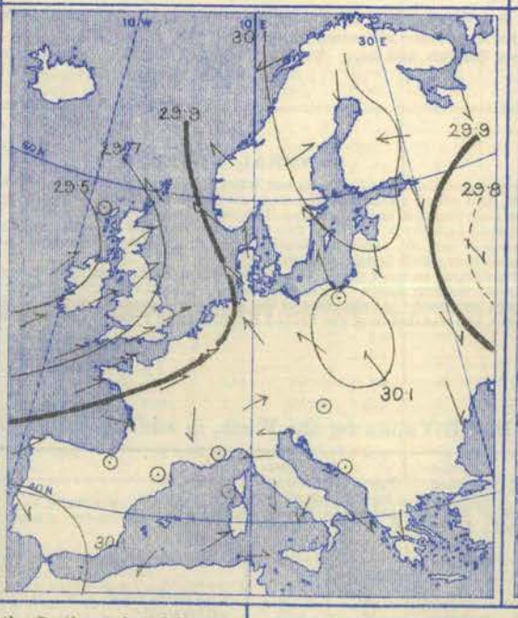
Temperature and Weather.

8 a.m.

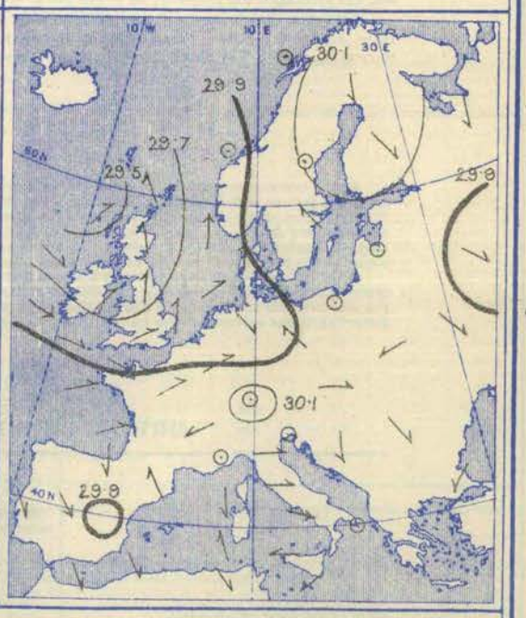


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of England and the Continent, but dull over northern and central Russia. Showery in the extreme south-west of our Islands, and rainy at Aberdeen and Belmullet. Rain falling later in all but the extreme southern and eastern parts of our Islands, as well as in Denmark, Germany, and the north of France—heavily in places. Thunderstorms occurring at Leith, and also at Fanö, and thunder heard over the northern parts of the United Kingdom generally.

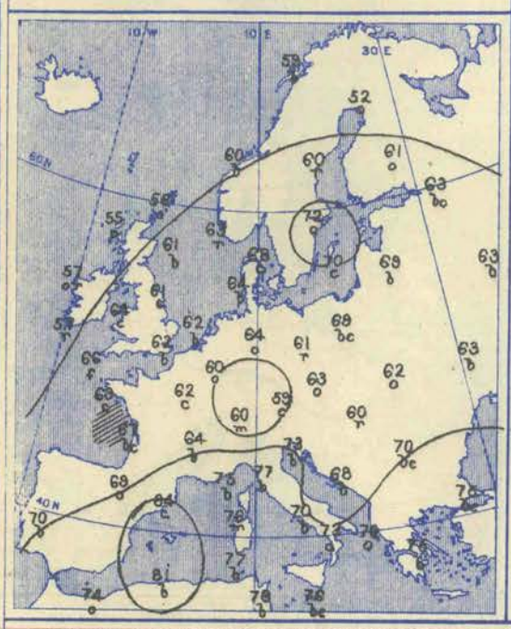
Temperature fallen a little in our Islands and France, but risen in most other countries. Morning readings highest, 80° at Leghorn, 79° at Sanguinaire, Brindisi, and Algiers, and 78° at Patras; above 70° over southern Europe generally, and just touching it at Faerder and Wisby. Lowest, 44° at Archangel, 51° at Moscow, 52° at Kuopio, and 53° at Haparanda and Uleaborg. Rising during day to between 70° and 75° in many parts of our Islands, and to 78° at York; exceeding 80° in Germany, and exceeding 85° in many parts of southern Europe, the highest reading of all being 97° at Gap.

Wind light to fresh from the South-Westward over the southern parts of our Islands, the Netherlands, and the northern parts of France. Southerly or South-Easterly over the north of our Islands, as well as over Denmark, north Germany, and the greater part of Scandinavia. Light from the Northward over Russia and Italy; calm or variable over Austria and the south of France. Subsequently veering to the Westward on our western coasts; no important change occurring elsewhere.

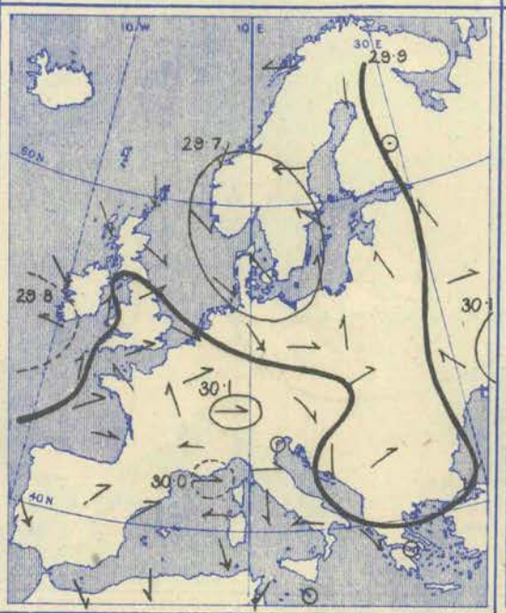
Barometer highest, 30·1 ins. and upwards in three areas—one lying over Finland and the north of Scandinavia, another over Poland and eastern Germany, and the third over the south of Spain. Lowest, 29·5 ins. and less in a depresdon lying off our own western coasts; 29·8 ins. and less in another disturbance over central Russia. Depression in west subsequently moving Northwards; shallow secondary systems advancing over our western coasts in latter part of day.

Tuesday, 10th August.

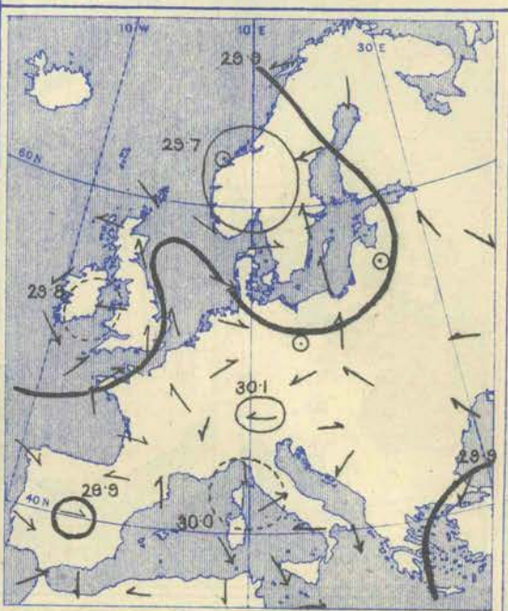
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the United Kingdom as a whole, but dull in the north of Scotland, and rainy in the west and south of Ireland. Fine over southern Europe, and also over the greater part of Russia; dull in most of the northern and central countries, with rain in a few places, but fine in the west of Norway. Rain falling later in all but the extreme southern and eastern parts of our Islands—heavily at some of the western stations; lightning seen at Prawle Point at night, and a thunderstorm occurring at Biarritz.

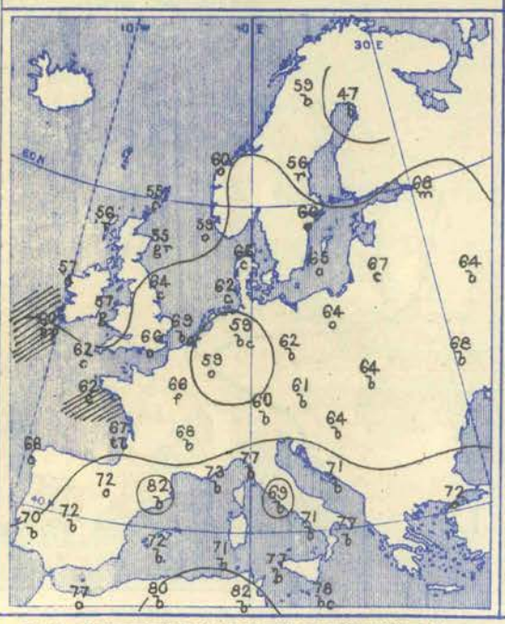
Temperature fallen in Ireland, and also over central and southern Europe generally, risen in most other localities. Morning readings highest, 84° at Barcelona, 81° at Algiers, 79° at Sfax, and 78° at La Calle; above 70° in most parts of southern Europe, as well as at some of the Baltic stations. Lowest, (1) 52° at Haparanda, and 55° at Uleaborg; (2) 55° at Stornoway, 56° at Sumburgh Head, and 57° at Malin Head, Belmullet, and Valencia (Ireland). Rising during day to 75° and upwards in many parts of England, and to 79° in London and at Cambridge; exceeding 85° over southern Europe generally, and reaching 99° at Madrid.

Wind light from the Westward in the west of France, from the Southward or South-Eastward in the west of our Islands and the north of France generally, and from the Eastward at Valencia (Ireland). Light to moderate from the North-Westward in the north and east of our Islands, and also on the eastern and southern shores of the North Sea; Westerly or South-Westerly over Germany and Austria. Southerly over the Baltic; Easterly or North-Easterly at most of the Scandinavian stations. Light and variable in Russia and Italy; Northerly in Algeria. Subsequently shifting to the North-Westward in the south of Ireland, and to the Eastward or South-Eastward on many parts of our northern coasts.

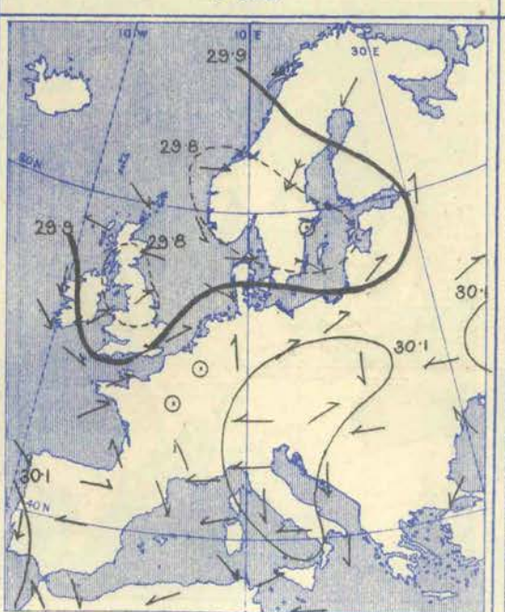
Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the south of Russia; 30·0 ins. and upwards in another system over France, Spain, northern Italy, and Algeria. Lowest, 29·7 ins. and less in a large shallow depression over Denmark and all the more southern parts of Scandinavia; 29·8 ins. and less in another disturbance approaching the south of Ireland. Latter system subsequently advancing north-eastwards over our western coasts, but proving very shallow.

Wednesday, 11th August.

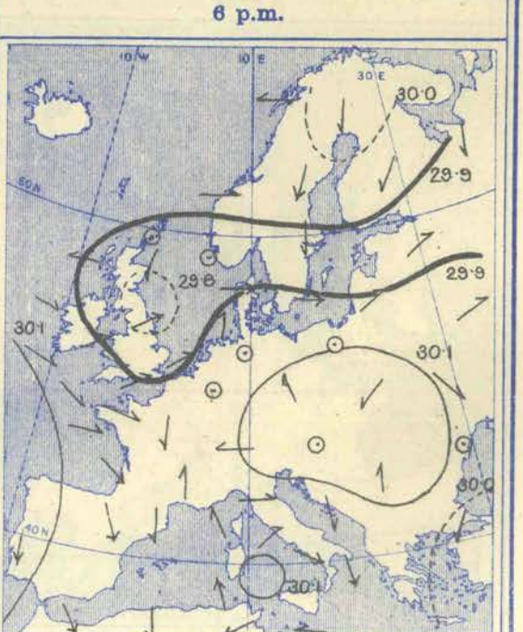
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy over western and northern Europe generally, with rain in Scotland and the north of Ireland, as well as at Hernösand and Memel; thunder reported at Ardrossan, and a thunderstorm at Rochefort. Fine over the eastern, central, and southern parts of the Continent. Rain falling later in most of the western and northern countries—heavily in Scotland, as well as in some parts of Denmark and the west of France; thunderstorms occurring in many isolated localities.

Temperature fallen in all the more western and northern parts of our Islands, as well as over Sweden, Denmark, and the Baltic; changed irregularly elsewhere. Morning readings highest, 82° at Barcelona and Sfax, 80° at Algiers and La Calle, and 79° at Aumale; above 70° over southern Europe generally, and very little below it in the east of England or in Finland. Lowest, (1) 47° at Bodö, 50° at Uleaborg, and 56° at Hernösand; (2) 55° at Sumburgh Head, Aberdeen, Donaghadee, and Parsonstown. Rising later to between 70° and 75° in many parts of England, and to 76° at Cambridge. Exceeding 85° over southern Europe generally, and reaching 97° at Gap.

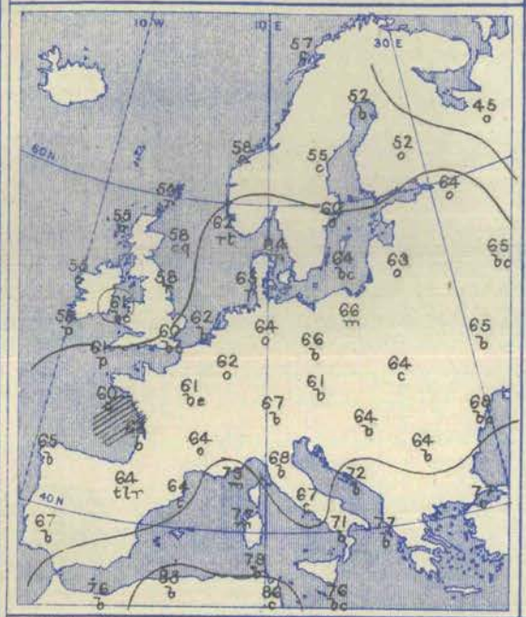
Wind moderate to fresh from the North-Westward in the west of our Islands; light from the South-Westward in the south of England and the adjacent parts of the Continent; Southerly on our eastern coasts; Easterly in Scotland. Moderate to strong from the Westward over Denmark, the Baltic, and the south of Scandinavia; Easterly or North-Easterly over the northern parts of Scandinavia. Light and variable over Italy, Austria, and the south of Russia. Subsequently veering to the Westward in the south of England, but backing to the North-Eastward or Northward in Scotland.

Barometer highest, 30·1 ins. and upwards in three areas—one lying off the Portuguese coasts, another over Italy, Switzerland, and all the more southern parts of Germany, and the third over southern Russia. Lowest, 29·8 ins. and less in two shallow depressions—one lying over the northern parts of Great Britain, and the other over the southern parts of Scandinavia. Former disturbance subsequently moving slowly north-eastward to the North Sea; Scandinavian depression filling up.

Thursday, 12th August.

Temperature and Weather.

8 a.m.

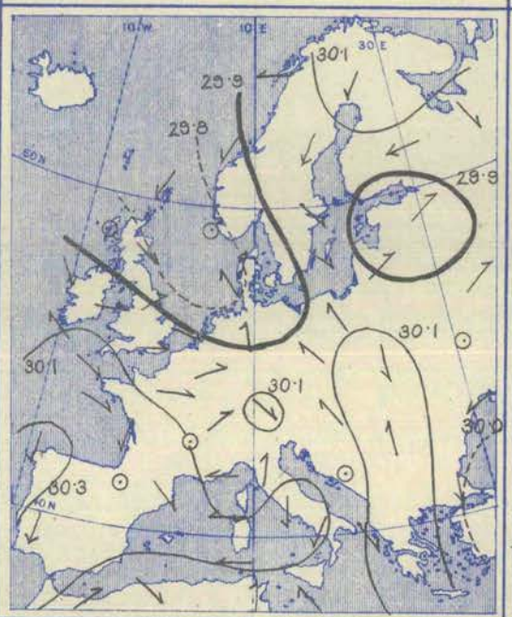


Weather in morning fine over the greater part of western, central, and southern Europe, but rainy in the north-east of England; thunderstorms reported in the extreme south of France. Dull and unsettled in most of the northern countries, with rain in Denmark, and also at Münster. Rain setting in later over the west of our Islands—heavily in the south of Ireland; considerable amounts falling also in various parts of Scandinavia and Denmark, and also in the south of France, with a thunderstorm at Karlstad. Thunderstorms occurring also in Algeria.

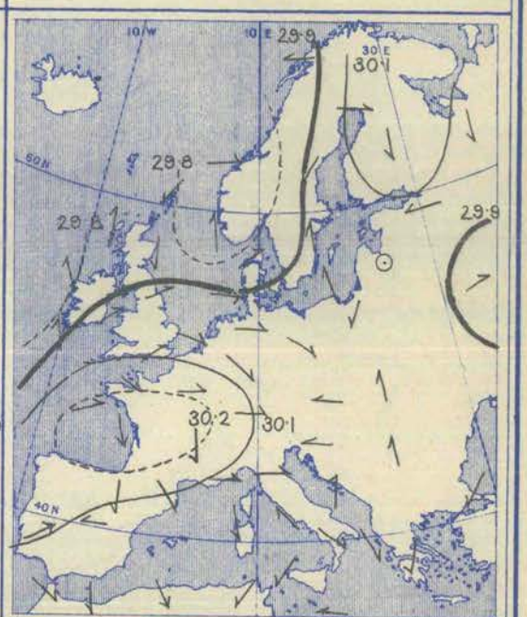
Temperature fallen in most countries. Morning readings highest, 86° at Sfax, 83° at Algiers and La Calle, and 82° at Aumale; above 70° in many parts of southern Europe, and above 65° at several stations in Denmark and the south of Scandinavia. Lowest, (1) 45° at Archangel, and 52° at Haparanda and Kuopio; (2) 54° at Sumburgh Head, and 55° at Stornoway. Daily maxima below 65° on many parts of our own western and extreme northern coasts, but thermometer exceeding 70° in the south-east of England, and also at Leith. Reaching 85° or more in many parts of southern Europe, and touching 91° at Florence.

Barometer and Wind.

8 a.m.



6 p.m.



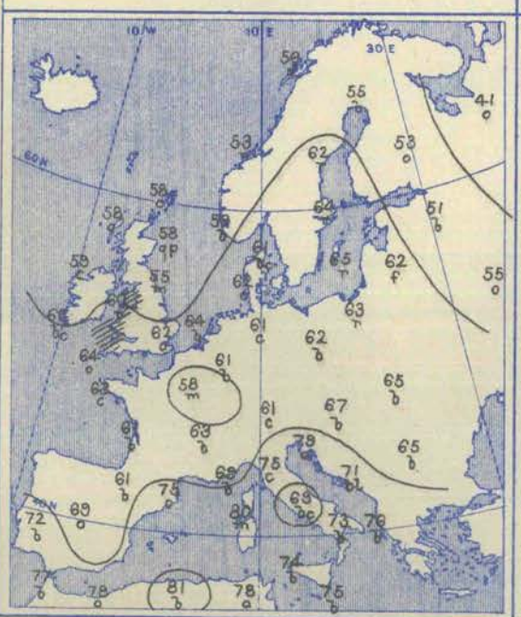
Wind light to fresh from the Westward or North-Westward over the greater part of our Islands, France, the Netherlands, and the north of France, but South-Easterly at Valencia (Ireland). Light from the South-Eastward or Southward over Germany, Denmark, and the south of Norway. Easterly or North-Easterly in the west of Norway. Northerly or North-Westerly over Denmark and Russia, and also over the southern parts of Italy. Variable over northern Italy and the south of France; Northerly over the western parts of the Spanish Peninsula. Subsequently backing to the South-Westward or Southward on all our western coasts, but veering to the Westward in Denmark.

Barometer highest, 30·2 ins. and upwards in an area lying to the west and north-west of the Spanish Peninsula; 30·1 ins. and upwards in another system lying over Lapland, and also in a long band extending from Greece to Poland. Lowest, 29·8 ins. and less in a large shallow depression lying over the North Sea, and also in another disturbance over the Gulf of Finland and the neighbouring provinces. Depression over North Sea subsequently moving north-eastwards, but new and large disturbance appearing off our own western coasts in evening.

Friday, 13th August.

Temperature and Weather.

8 a.m.

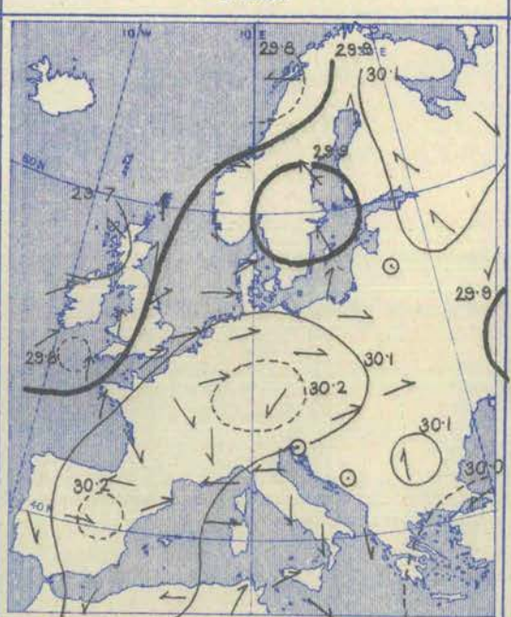


Weather in morning dull and unsettled over our Islands generally, with rain at several of our western and northern stations. Fine in the extreme south-east of England, as well as over France and the greater part of central and southern Europe, but dull at some of the Adriatic stations, with a thunderstorm at Lesina. Dull in most of the northern countries, with rain in many parts of Scandinavia. Rain falling later over north-western and northern Europe generally—heavily in places, especially at Stockholm.

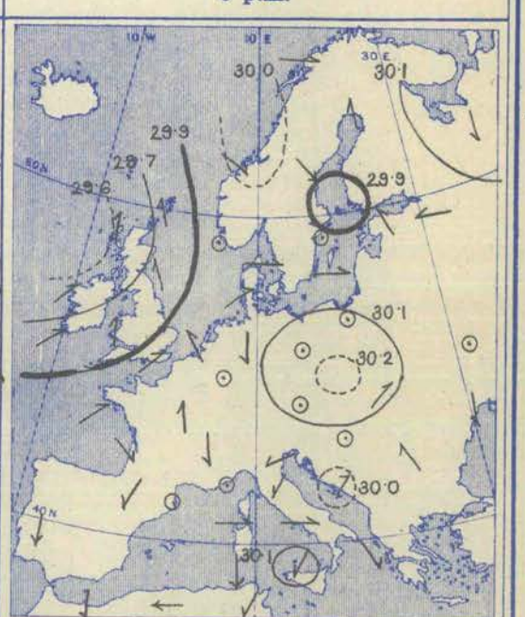
Temperature risen a little in our Islands, and also in Sweden and Austria, fallen in most other countries. Morning readings highest, 84° at Sfax, 81° at Algiers, 80° at Sanguinaire, and 78° at Athens, Nemours, and La Calle; above 70° over southern Europe generally. Lowest, (1) 41° at Archangel, 51° at St. Petersburg, and 53° at Kuopio; (2) 51° at Belfort, and 53° at Limoges; (3) 55° at Shields, and 57° at Malin Head, Loughborough, and Oxford. Rising during day to 70°, or a little above, in the south and east of England, and also at Leith. Exceeding 80° in many parts of France and Germany, and exceeding 85° in Spain and Italy, the highest readings of all being 100° at Sanguinaire and Cagliari, 102° at Aumale, and 109° at Biskra.

Barometer and Wind.

8 a.m.



6 p.m.

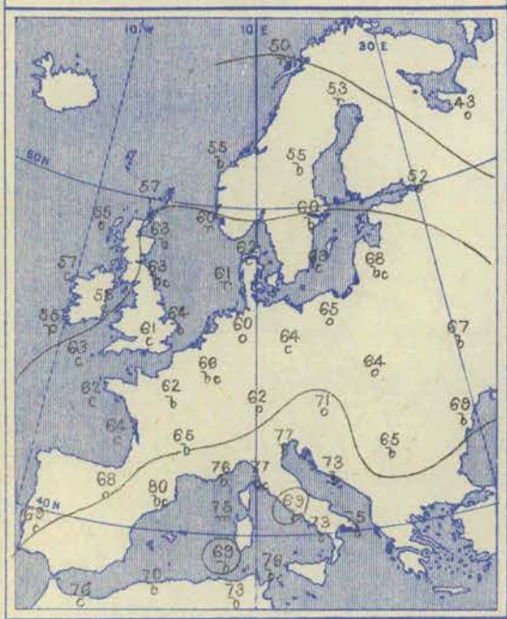


Wind Southerly over Great Britain and the north of France, and strong in force on our western coasts; South-Westerly in Ireland. Westerly over Denmark, north Germany, and the south of Norway, but South-Easterly in Sweden and Finland. Variable in Austria, and also in the south of France; Northerly over Italy and the Spanish Peninsula. Subsequently veering to the South-Westward in the south of England, and shifting to the Northward in the west of France; no important change occurring elsewhere.

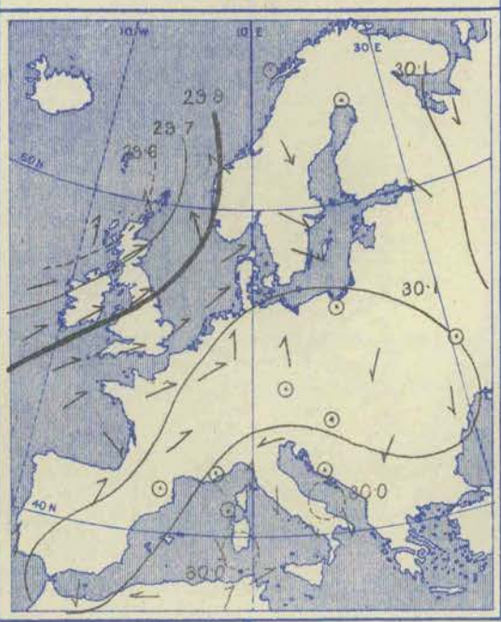
Barometer highest, 30·2 ins. and upwards over south Germany, and also over central Spain; 30·1 ins. and upwards in an anticyclone covering nearly the whole of Spain, France, Germany, and the Netherlands, and also in another system over northern Russia. Lowest, 29·7 ins. and less in a depression off the west of Scotland; 29·8 ins. and less in a small secondary system near Scilly, and also in a separate disturbance off the north-west of Norway; 29·9 ins. and less in a fourth system over the Gulf of Genoa. Depression off west of Scotland subsequently travelling slowly northwards; secondary disturbance also moving northwards and dispersing.

Saturday, 14th August.

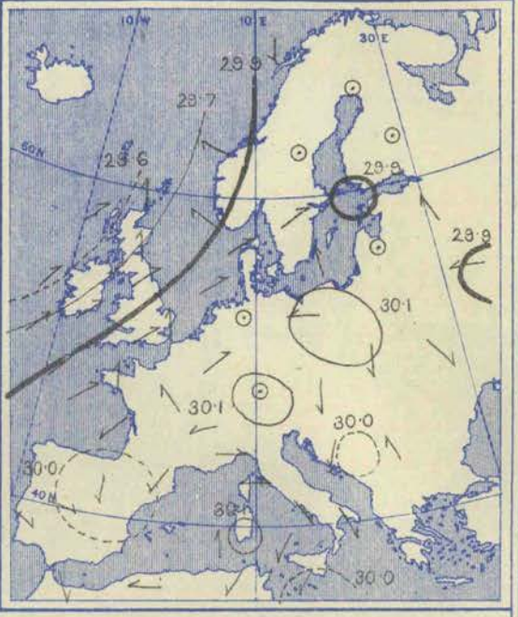
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the southern, western, and central parts of continental Europe, as well as over Sweden and England; rainy in the extreme north of Europe, and showery over the west of Ireland. Considerable rain (0·6 in.) at Valencia later, and smaller quantities at our western and northern stations generally, as well as in some parts of France and on the eastern shores of the North Sea; thunder at Aberdeen.

Temperature in morning highest, 80° at Barcelona, and exceeding 70° at nearly all the Mediterranean and Adriatic stations; 66° at Brussels and Neufahrwasser, 64° on our own south-east coasts, 63° at Wisby. Lowest, 43° at Archangel, 50° at Bodö, 55° at Stornoway, 57° at Ardrossan and Belmullet. Rising later to between 70° and 75° over the inland parts of England, to 75° at Brussels and Paris, to 80° at Perpignan, and to 88° at Nice.

Wind very light and variable (mainly anticyclonic) over south-western, south-eastern, and central Europe; South-Westerly, moderate to light, over the British Islands, Westerly to North-Westerly over Sweden and the Baltic, but Easterly at Bodö and Ulcaborg. Becoming Northerly in the south-west of France later, very little change elsewhere.

Barometer highest, 30·2 ins. and more to 30·0 ins. over all but the northern countries of Europe. Lowest, below 29·6 ins. over the Shetlands, the Hebrides, and the north-west of Scotland. Gradients slight to moderate. Falling a little later over the western and northern countries generally, but distribution not changed materially.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week the weather has been almost continuously high over the Continent and low over north-western Europe; several depressions have travelled from south-west or west across the British Islands to Scandinavia, while some secondaries have followed a rather more southerly track to Holstein and the Baltic.

Temperature has not been nearly so high over the British Islands and their neighbourhood as it was in the previous week, as the clouds have been very heavy, the rainfall frequent and considerable, and thunderstorms have occurred in many places. The intervals of bright sunshine, however, have been considerable over England, where the total amounts were in excess of the means for the time of year.

Over the Continent the weather has been finer, and the wind light and variable. In consequence of some slight local disturbances, however, there have been local thunderstorms at times, especially on Sunday, when the falls of rain over France and Germany were heavy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 188.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	44·7	+11·9	42	+12	EASTBOURNE	49·6	+ 2·8	49	+ 4
OSWALDKIRK (Yorkshire)	38·7	+ 6·3	37	+ 8	VENTNOR	51·7	?	51	?
WORKSOP	42·3	+ 7·8	41	+ 9	SOUTHPORT	34·1	?	32	
THURCASTON (Leicestershire)	43·1	+ 6·4	41	+ 6	COLWYN BAY	42·7	?	41	?
MARGATE	44·5	+ 1·8	44	+ 3	NEWQUAY	49·6	+ 4·5	49	+ 4
WESTBOURNE (Sussex)	44·3*	− 2·2	43*	− 2	TORQUAY	47·3*	+ 1·3	46*	+ 2
BRIGHTON	49·2	+ 1·2	48	+ 1	GUERNSEY	55·7*	+ 2·3	55*	+ 3

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

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VOL. XIV No 33.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 21ST, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 194.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	42	61·8	49·8	55·5	1 above	95	+ 9	0	0	1438	+191	615	- 8
	1. SCOTLAND, EAST	70	37	64·5	48·6	56·0	0 (average)	98	- 4	0	0	1621	+ 84	661	+ 12
	2. ENGLAND, N.E.	74	43	67·9	52·2	59·6	2 above	123	+10	0	0	1775	+157	471	- 78
	3. ENGLAND, EAST	75	47	70·1	53·7	61·4	2 above	136	+10	0	0	2155	+254	493	-124
	4. MIDLAND COUNTIES	74	47	68·3	53·0	60·2	1 above	127	+ 7	0	0	2129	+219	504	-115
	5. ENGLAND, SOUTH	75	50	68·1	55·8	61·6	1 above	137	+ 4	0	0	2350	+299	297	-180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	66	46	62·6	52·3	57·0	0 (average)	105	+ 2	0	0	1749	+135	441	- 21
	7. ENGLAND, N.W.	69	48	64·9	54·0	59·1	0 (average)	120	+ 5	0	0	1953	+216	367	- 92
	8. ENGLAND, S.W.	72	47	65·2	54·8	59·7	0 (average)	124	+ 4	0	0	2242	+306	223	-138
	9. IRELAND, NORTH	70	44	63·5	50·4	56·6	1 below	102	- 4	0	0	1801	+ 85	403	+ 8
	10. IRELAND, SOUTH	68	43	63·4	52·5	57·6	1 below	109	- 6	0	0	2148	+202	242	- 57
	—CHANNEL ISLANDS	72	53	66·8	56·9	61·5	0 (average)	137	+ 3	0	0	2524	+361	68	- 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 194.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	16	6 more	141	- 8	24·8	- 3·2	34	+13	33	+13	930	+129	30	+ 4
	1. SCOTLAND, EAST	5	9	1 more	130	+ 8	19·3	+ 0·5	47	+15	46	+16	1002	+ 67	33	+ 3
	2. ENGLAND, N.E.	5	6	1 more	115	+ 2	14·1	- 1·3	47	+13	46	+14	1090	+164	36	+ 6
	3. ENGLAND, EAST	5	7	1 more	113	+ 3	14·0	- 1·2	48	+ 6	48	+ 7	1192	+ 97	39	+ 3
	4. MIDLAND COUNTIES	6	6	0 (average)	114	+ 6	17·2	+ 0·5	44	+ 6	44	+ 8	1137	+148	38	+ 5
	5. ENGLAND, SOUTH	6	9	3 more	105	+ 2	17·0	+ 0·5	43	- 2	43	- 1	1225	+ 80	41	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	16	7 more	139	+12	26·6	- 1·2	40	+ 7	39	+ 7	1038	+ 36	34	+ 2
	7. ENGLAND, N.W.	6	19	11 more	131	+14	20·6	+ 1·2	42	+ 5	41	+ 7	1128	+104	36	+ 3
	8. ENGLAND, S.W.	7	12	4 more	134	+16	25·8	+ 3·9	49	+ 6	49	+ 6	1220	+ 29	40	+ 1
	9. IRELAND, NORTH	7	12	4 more	149	+11	26·0	+ 4·1	38	+10	38	+11	936	+ 21	31	+ 1
	10. IRELAND, SOUTH	7	16	8 more	142	+17	27·7	+ 4·6	35	+ 3	35	+ 3	986	- 45	33	- 1
	— CHANNEL ISLANDS	7	14	9 more	143	+20	21·3	+ 3·2	43	-15	42	-17	1261	- 90	43	- 2

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was again very changeable and unsettled, with frequent rain in all districts. Thunderstorms were experienced on Wednesday and Thursday over the greater part of England, as well as in some parts of Ireland.

Temperature varied a good deal, but was rather above the mean in most of the English districts, as well as in Scotland N. In Scotland E. and W., the western parts of England, and the Channel Islands it just equalled the mean, while over Ireland it was slightly below it. The highest of the maxima, which occurred on rather irregular dates, ranged from 75° in England S. and E. to 68° in Ireland S., and to 66° in Scotland W. The lowest of the minima were registered, as a rule, during the earlier half of the week, and ranged from 37° in Scotland E. (at Braemar) to 43° in England N.E. and Ireland S., and to 53° in the Channel Islands.

Rainfall just equalled the mean in the Midland counties, but exceeded it in all other parts of the Kingdom. The excess was very considerable in most districts, but very slight in Scotland E. and England N.E.

Bright Sunshine was again in excess of the mean over the greater part of the Kingdom, but showed a deficiency in England S. and the Channel Islands. The percentage of the possible duration ranged from 49 in England S.W. to 35 in Ireland S., and 33 in Scotland N.

Barometer and Wind.—During the whole of this week depressions travelled north-eastwards over the more northern parts of the Kingdom, while their secondary systems passed in a similar direction further to the southward. Southerly to Westerly or North-Westerly winds consequently prevailed throughout the period, and at times increased to a strong breeze or moderate gale, especially in the west and north-west.

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II.—DATA from which the SUMMARY on page 193 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	62	47	59·6	50·3	54·7	+ 2·0	89	0	5	1·79	+ 1·01	*	*	*	*
	Stornoway	62	47	60·6	51·0	55·5	+ 1·6	95	0	7	1·46	+ 0·61	47·8	+21·3	46	+21
	Wick	69	45	64·3	49·3	56·4	+ 1·9	101	0	7	0·69	+ 0·07	*	*	*	*
	Lairg Ⓢ	68	42	64·3	48·9	56·2	+ 1·2	99	0	6	0·77	+ 0·15	*	*	*	*
	Glencarron Ⓢ	63	44	59·8	48·7	53·9	− 0·7	83	0	7	2·71	+ 1·18	*	*	*	*
	Fort Augustus Ⓢ	65	46	62·5	49·3	55·5	− 1·0	95	0	6	1·09	+ 0·34	29·1	+12·3	28	+12
	Fort William Ⓢ	64	50	61·4	51·4	56·1	− 0·8	99	0	7	2·40	+ 1·02	25·0	+ 5·4	24	+ 6
1. SCOTLAND, E.	Nairn	70	41	66·0	47·4	56·1	− 0·4	98	0	5	0·37	− 0·24	*	*	*	*
	Aberdeen	70	45	64·3	50·7	57·1	+ 0·9	106	0	6	0·76	+ 0·06	44·5	+10·5	43	+11
	Braemar Ⓢ	62	37	60·0	45·5	52·3	− 0·9	72	0	6	0·70	− 0·18	36·2†	+10·4†	35†	+11†
	Ochtertyre Ⓢ	68	42	65·0	47·7	55·8	− 1·1	97	0	6	1·21	+ 0·35	*	*	*	*
	Leith	70	49	67·3	52·3	59·4	+ 1·4	122	0	4	0·55	− 0·04	*	*	*	*
	Marchmont Ⓢ	66	43	64·3	47·7	55·5	− 0·2	95	0	5	1·48	+ 0·70	52·8	+18·7	51	+18
2. ENGLAND, N.E.	Alnwick Castle	69	47	66·8	50·3	58·1	+ 1·7	113	0	5	0·90	+ 0·22	*	*	*	*
	Durham	69	47	66·8	49·6	57·7	− 0·1	110	0	6	0·53	− 0·07	43·9	+10·8	43	+11
	Shields	70	49	67·9	52·3	59·6	+ 2·1	123	0	5	0·62	− 0·01	*	*	*	*
	Scarborough Ⓜ	74	49	68·5	52·0	59·8	+ 1·5	125	0	5	0·57	0·00	49·9	?	49	?
	York	73	48	69·1	52·9	60·5	+ 1·8	130	0	6	0·75	+ 0·17	52·5	+19·0	51	+19
	Spurn Head	73	53	68·3	55·9	61·7	+ 2·4	138	0	5	0·43	+ 0·03	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	75	48	70·6	52·5	61·0	+ 1·4	133	0	5	0·96	+ 0·36	46·1	+ 6·3	46	+ 7
	Yarmouth	72	51	68·3	55·4	61·5	+ 1·5	137	0	5	0·20	− 0·32	*	*	*	*
	Geldeston	73	50	71·1	53·8	61·9	+ 2·0	139	0	5	0·44	− 0·02	49·8	+ 6·8	50	+ 8
	Cambridge	75	47	71·3	53·3	61·8	+ 1·2	139	0	5	0·80	+ 0·28	48·0	+ 6·9	48	+ 8
	Rothamsted	71	49	69·3	53·6	61·0	+ 1·6	133	0	6	0·99	+ 0·42	48·0	+ 5·3	48	+ 6
4. MIDLAND COUNTIES	Harrogate															
	Bawtry (Hesley Hall)	74	47	70·3	53·0	61·1	+ 1·9	134	0	7	0·20	− 0·30	*	*	*	*
	Loughborough	74	52	69·9	54·6	61·8	+ 1·4	139	0	4	0·32	− 0·21	*	*	*	*
	Stamford (Duddington)	74	50	69·6	53·7	61·2	+ 0·8	134	0	6	0·35	− 0·15	*	*	*	*
	Cheadle Ⓜ	69	49	65·0	51·2	57·7	+ 0·5	110	0	7	0·71	− 0·09	*	*	*	*
	Shirley (near Solihull)	69	50	67·3	52·0	59·2	− 0·4	120	0	7	0·83	?	*	*	*	*
	Churchstoke Ⓜ															
	Hereford Ⓜ									7	0·83	+ 0·29	*	*	*	*
	Cirencester	73	47	67·9	52·0	59·5	+ 1·3	123	0	7	0·83	+ 0·15	45·9	+ 5·4	46	+ 7
	Oxford	72	50	68·1	54·3	60·8	+ 0·4	132	0	5	0·67	+ 0·15	44·6	+ 3·0	45	+ 4
5. ENGLAND, S.	London	75	50	71·3	54·6	62·5	+ 0·7	144	0	4	0·49	− 0·03	43·6†	+ 5·6†	44†	+ 7†
	North Foreland	71	54	68·3	56·0	61·8	+ 1·3	139	0	5	1·12	?	*	*	*	*
	Dungeness	70	53	67·6	57·7	62·4	+ 0·8	143	0	6	1·28	+ 0·80	*	*	*	*
	Hastings (St. Leonards)	69	53	67·6	56·2	61·4	+ 0·3	136	0	6	1·13	+ 0·61	43·3	− 3·5	43	− 2
	Southampton	74	51	69·4	55·2	61·9	+ 0·4	139	0	5	0·93	+ 0·35	42·7	− 3·3	43	− 2
	Hurst Castle	71	55	67·3	58·7	62·7	+ 1·0	145	0	6	0·55	+ 0·02	*	*	*	*
	Shaftesbury Ⓜ	69	50	65·5	52·2	58·5	− 1·0	116	0	7	0·68	+ 0·03	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)												*	*	*	*
	Glasgow	63	47	61·8	51·4	56·3	− 0·2	100	0	7	1·27	+ 0·37	31·3	+ 2·3	30	+ 2
	Ardrossan	65	52	60·7	53·9	57·1	− 0·6	106	0	7	0·84	− 0·04	*	*	*	*
	Glenlee Ⓢ	66	?	64·1	?	?	?	?	0	6	2·87	+ 1·81	*	*	*	*
	Gilcrux	64	50	62·6	52·7	57·4	+ 1·1	108	0	6	1·91	?	39·1	?	38	?
	Douglas (Isle of Man)	66	46	63·7	51·3	57·1	+ 0·4	106	0	6	1·29	+ 0·41	48·9	+11·5	48	+12
7. ENGLAND, N.W.	Stonyhurst	66	49	63·5	52·1	57·5	− 0·1	109	0	7	3·82	+ 2·64	35·9	+ 3·7	35	+ 4
	Blackpool Ⓜ	69	53	66·0	55·0	60·2	+ 1·0	127	0	5	1·62	+ 0·88	42·6	+ 7·1	42	+ 9
	Manchester (Prestwich)	69	48	66·5	52·6	59·1	+ 0·8	120	0	7	1·52	+ 0·70	39·0	?	38	?
	Liverpool Obsy. (Bidston)	68	54	65·0	54·6	59·5	− 0·1	123	0	7	1·74	+ 1·12	*	*	*	*
	Llandudno Ⓜ	67	55	65·2	55·5	60·1	+ 0·2	127	0	6	1·05	+ 0·47	*	*	*	*
	Holyhead	65	52	62·9	54·1	58·2	− 0·7	113	0	6	1·32	+ 0·64	*	*	*	*
8. ENGLAND, S.W.	Llandovery	68	47	65·9	51·4	58·2	− 0·7	113	0	7	1·63	+ 0·59	*	*	*	*
	Pembroke	64	56	62·7	56·6	59·5	+ 0·6	123	0	6	1·28	+ 0·66	48·8	+ 6·6	49	+ 7
	Clifton	71	54	66·4	56·3	61·1	+ 1·2	134	0	6	1·03	+ 0·28	*	*	*	*
	Arlington (N. Devon)	67	49	64·3	52·4	58·0	− 0·2	112	0	7	1·73	+ 0·58	*	*	*	*
	Cullompton Ⓜ	72	50	68·1	53·1	60·2	+ 0·6	127	0	7	0·94	+ 0·32	37·2	− 2·6	37	− 2
	Falmouth	68	55	65·8	56·7	61·0	+ 1·1	133	0	7	0·81	− 0·01	55·5	+ 9·5	56	+10
	Plymouth	68	53	65·3	56·3	60·5	− 0·5	130	0	7	1·21	+ 0·59	51·7	+ 9·6	52	+11
	Prawle Point	65	54	63·0	55·9	59·2	− 0·2	120	0	6	0·73	+ 0·22	*	*	*	*
9. IRELAND, N.	Malin Head	64	49	61·3	51·7	56·2	− 1·3	99	0	7	1·40	?	*	*	*	*
	Londonderry	70	47	65·7	50·6	57·7	+ 0·1	110	0	7	1·25	+ 0·40	*	*	*	*
	Edenfel (Omagh)	63	47	62·0	50·6	56·0	− 0·3	98	0	7	1·12	+ 0·29	*	*	*	*
	Belmullet	64	53	61·3	54·1	57·5	− 0·5	109	0	6	1·25	+ 0·24	*	*	*	*
	Markree Castle	69	44	63·6	48·1	55·4	− 1·1	94	0	7	1·26	+ 0·35	35·4	+ 8·2	35	+ 9
	Armagh	65	47	64·4	49·7	56·6	− 0·7	102	0	7	1·15	+ 0·45	41·0	+15·0	40	+15
	Donaghadee	69	47	66·3	50·1	57·7	+ 0·5	110	0	7	0·87	+ 0·15	*	*	*	*
	Edgeworthstown	65	45	63·6	48·6	55·7	− 1·1	96	0	7	1·25	+ 0·37	*	*	*	*
10. IRELAND, S.	Dublin	68	49	65·4	53·6	59·2	+ 0·1	120	0	7	1·25	+ 0·63	41·3	+ 6·4	41	+ 7
	Parsonstown	65	46	63·0	50·7	56·5	− 1·4	102	0	7	1·50	+ 0·70	28·2	− 1·4	28	− 1
	Kilkenny	67	43	64·4	50·6	57·1	− 1·6	106	0	7	1·87	+ 1·06	*	*	*	*
	Roche's Point	65	46	63·3	53·4	58·1	− 1·2	113	0	7	0·83	− 0·07	*	*	*	*
	Valencia	63	51	62·0	53·7	57·6	− 1·3	109	0	6	1·96	+ 0·84	34·9	+ 2·1	35	+ 3
	Killarney	65	45	62·8	53·1	57·7	− 1·2	110	0	7	2·06	?	*	*	*	*
	Foynes	65	48	62·7	52·3	57·2	− 1·1	106	0	7	1·94	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	54	66·9	56·4	61·3	+ 1·1	135	0	7	0·85	+ 0·29	45·8	?	46	?
	Jersey	72	53	66·6	57·4	61·7	− 0·8	138	0	6	2·03	+ 1·51	36·6	−17·6	37	−17

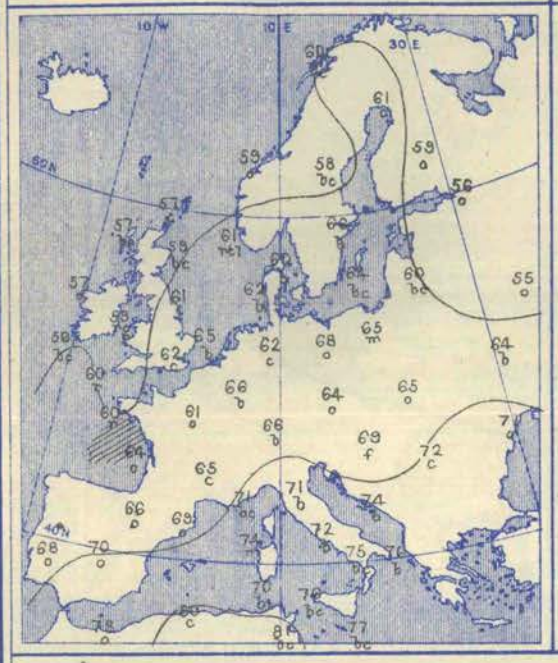
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 15th August.

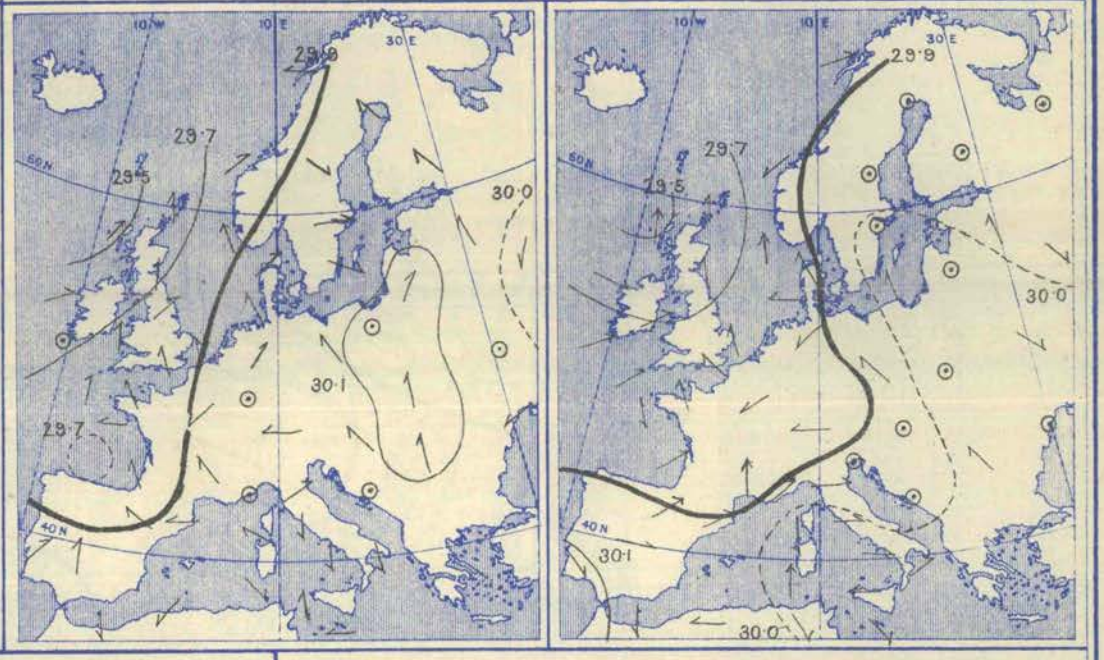
Temperature and Weather. 8 a.m.



Weather in morning fine over the Mediterranean and south-eastern Europe, as well as over the greater part of the British Islands; dull generally elsewhere, and very rainy over the west of France and the south-western parts of the United Kingdom. Rain falling later over western Europe as a whole—heavily over France, the north of Italy, and the Netherlands, but very slightly in Ireland. Sunshine very considerable over Ireland and the Hebrides, slight over England.

Temperature highest, 81° at Sfax, 80° at Algiers, 76° at Brindisi, 68° at Swinemunde, 66° at Brussels, Memel, and Stockholm, 62° in London. Lowest, (1) 55° at St. Petersburg and at Valencia (Ireland), 57° at Haparanda, Sumburgh Head, Malin Head, and Ardrossan, 59° at Prawle Point. Rising later to 71° at York, 72° at Cambridge, 77° at Berlin and Paris, 81° at Lyons, 84° at Nice, 86° at Cagliari, and 88° at Algiers.

Barometer and Wind. 8 a.m. and 6 p.m.

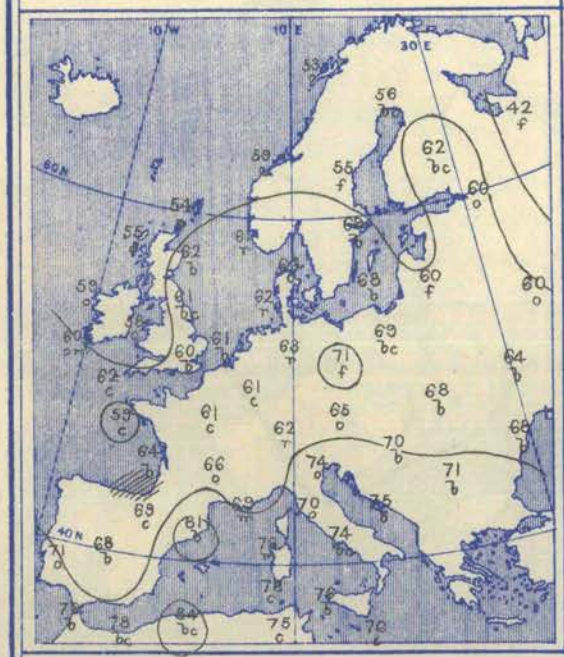


Wind South-Easterly to Southerly over the British Islands as a whole, and blowing freshly on our extreme north-west coasts; very light and variable over the Continent as a whole, but South-Easterly to Easterly over Brittany, South-Westerly at Corunna. Shifting to West over Ireland later, but a well-marked cyclonic circulation of moderate winds appearing over Brittany and moving North-Eastwards.

Barometer highest, 30·1 ins. and more to 30·0 ins. over central Europe, and exceeding 30·0 ins. over the Mediterranean, northern Africa, and the southern half of the Spanish Peninsula. Lowest, 29·5 ins. and less off our extreme north-western coasts, and apparently below 29·7 ins. in a small depression over the Bay of Biscay. Latter system moving north-eastwards quickly during day, and passing over the Straits of Dover at night.

Monday, 16th August.

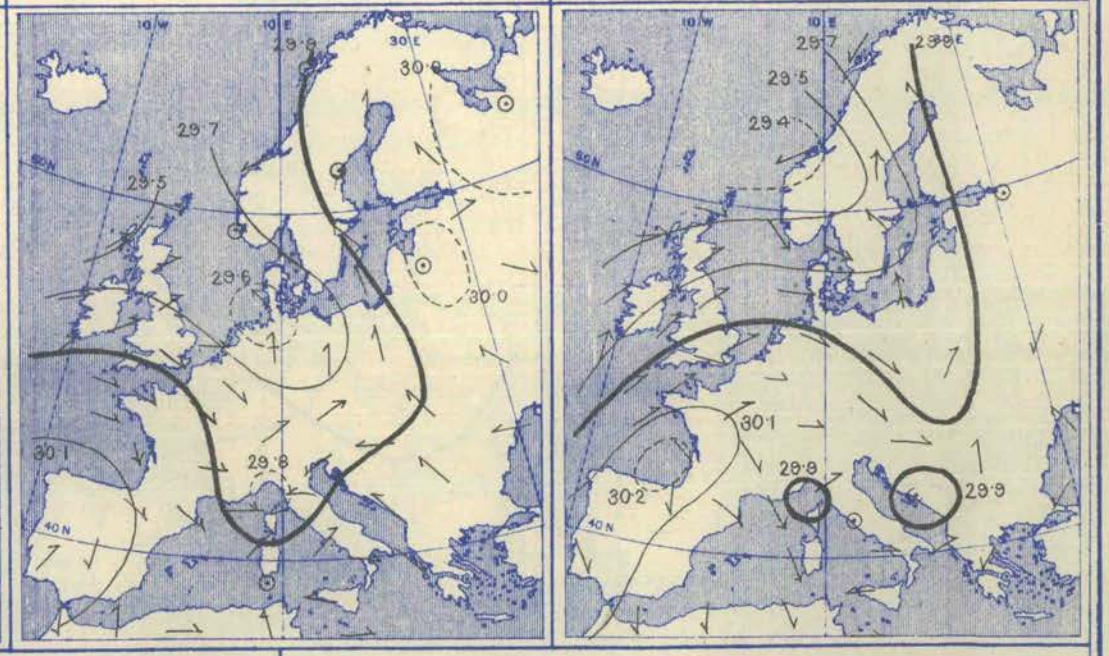
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over Great Britain, the west and south-west of France, and the Spanish Peninsula, as well as over south-eastern Europe, Finland, and the Gulf of Bothnia; dull and unsettled, with rain (1) over the west of Ireland, (2) over the eastern shores of the North Sea, and many parts of the north of Italy and south Germany. Rain falling later over all the northern and western parts of the British Isles, and heavy falls reported at several of the German and Scandinavian stations, as well as in the north of Italy; thunder at Wisby; fine weather continuing over France and Spain.

Temperature in morning highest, 84° at Algiers, 81° at Barcelona, and exceeding 70° at most of the stations over southern Europe; 71° at Berlin, 69° at Neufahrwasser and Stockholm. Lowest, 42° at Archangel, 53° at Bodö, 54° at Sumburgh Head, 55° at Stornoway, and 57° at Ardrossan. Rising later to between 70° and 74° over many parts of Great Britain, and touching 78° at Paris, 77° at Berlin, 82° at Nice, and also at Wisby, 93° at Brindisi and Cagliari, 100° at Biskra.

Barometer and Wind. 8 a.m. and 6 p.m.



Wind (1) chiefly North-Westerly over south-western Europe, but South-Easterly over Russia, Easterly over Scandinavia; (2) Westerly to Southerly over the United Kingdom, and of little force; (3) light and very variable (but cyclonic) over the Netherlands, western Germany, Austria, the north of Italy, and the south-east of France, becoming more Southerly over the west of our Islands later, and increasing greatly in force.

Barometer highest, (1) 30·1 ins. and more over Spain, and exceeding 30·0 ins. over all the western parts of France; (2) exceeding 30·0 ins. over Turkey, and nearly the whole of Russia. Lowest, below 29·5 ins. off the extreme north-west of our Islands, and below 29·6 ins. in a shallow depression lying over Denmark and the eastern side of the North Sea. Falling very decidedly over Ireland later, and the fall spreading eastwards and northwards

Saturday, 21st August.

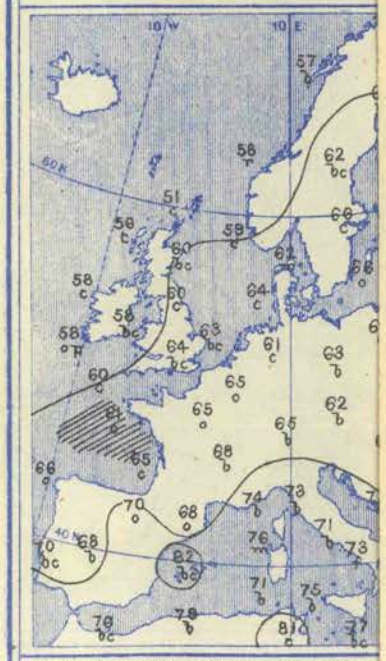
Temperature and We

8 a.m.

Weather in morning very fine and bright
Europe, including the eastern half of I
Scotland, and the west of Norway, as
falling later over northern Europe, nea
and the northern parts of France—the
by thunderstorms at Skudesnaes and
the southern half of France.
Temperature slightly higher over our Islan
at Barcelona, 80° at La Calle, 78° at At
and Adriatic stations; 69° at Lemberg
part of Ireland and England. Lowe
Petersburg; (2) 55° at Sumburgh Head
generally. Rising later to between 70°
Lyons, and to more than 80° on the
England and 86° at Nice.

Temperature and We

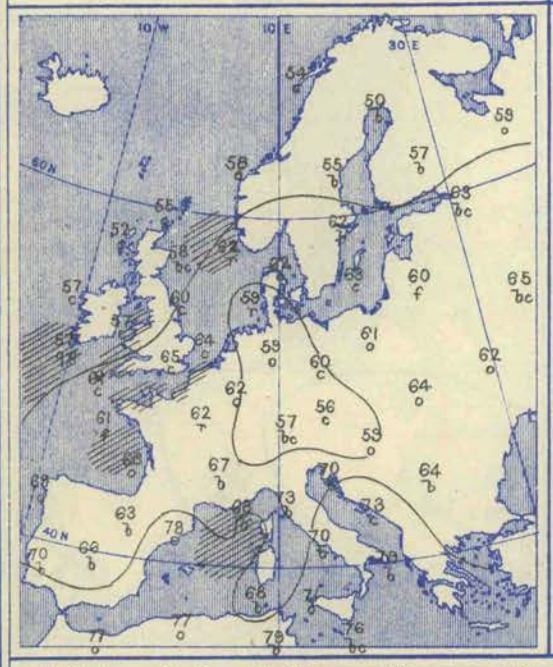
8 a.m.



Weather in morning still very fine over sou
Mediterranean, as well as over the gre
unsettled, and rainy at some of our
Norway. Rain falling later all over w
part of the British Isles—the amounts
so at Christiansund (2·4 ins.), and at L
and lightning occurring over our south
well as over several parts of France.
Temperature fallen a little in the extreme
exceeding 70° on the coasts of southern
at Fano. Lowest, 51° at Sumburgh He
and Bodö, 59° at York. Rising later to
81° at Berlin, 86° in parts of Italy, 87° a
the British Islands still later.

Temperature and Weather.

8 a.m.

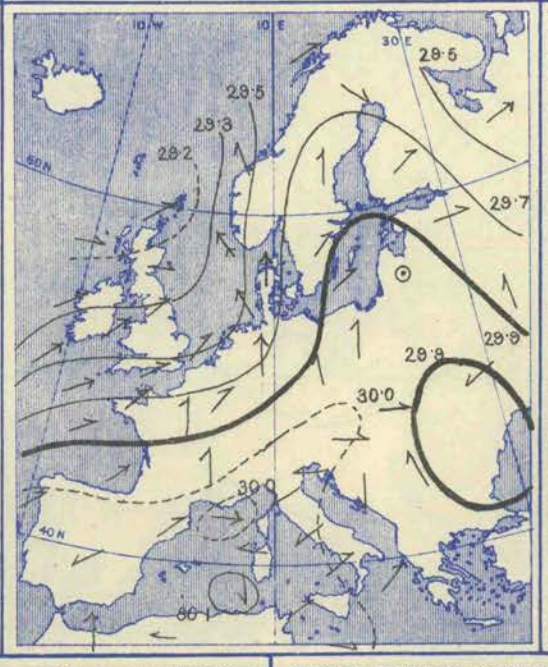


Weather in morning fine and bright over south-western, southern, and many parts of eastern and northern Europe; very changeable and showery again over the British Islands and the northern half of France (especially over Ireland and the west of England). Rain falling later over the whole of the British Islands, the northern parts of France and Germany, over Norway and the south of Sweden; thunder and lightning at Malin Head and on the north-eastern coast of Great Britain.

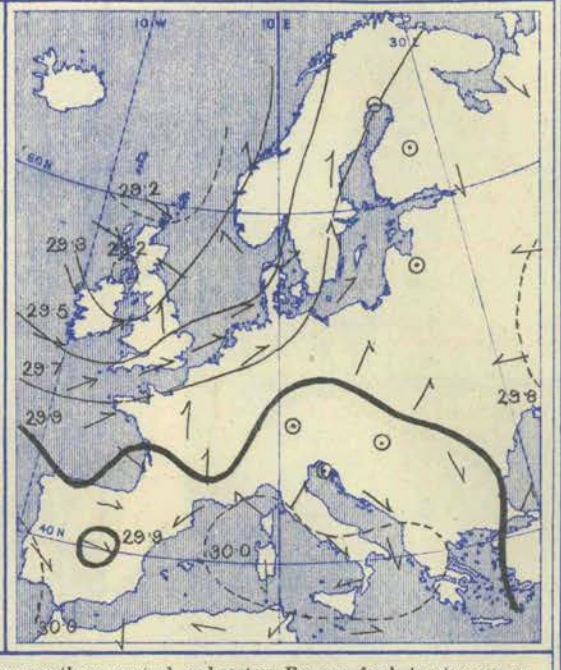
Temperature risen somewhat over France and England, fallen over south-eastern Europe and north Germany. Morning readings highest, 79° at Brindisi, 78° at Barcelona, and exceeding 70° over the southern half of the Mediterranean generally, and the eastern shores of the Adriatic; exceeding 60° over all but the most northern parts of Continental Europe, 65° in London. Lowest, 50° at Haparanda, 52° at Stornoway, 53° at Malin Head, 55° at Ardrossan and Nairn, 59° at York. Rising later to between 71° and 70° in the extreme south-east of England, to 72° at Munich and Wiesbaden, and 78° to 80° in the south of France, but not exceeding 63° at Paris.

Barometer and Wind.

8 a.m.



6 p.m.



Wind very light and variable over southern, central, and eastern Europe—fresh to strong over the north-western countries, and blowing from the South-West over Ireland, England, and the Channel, and from between South and South-East (strong) over the countries lying to the eastward of the North Sea; South-Westerly and Westerly over northern Europe. Veering Westwards over Ireland and England later, and still blowing strongly.

Barometer highest, 30·26 ins. over the Azores, and ranging from 30·0 ins. to 29·85 ins. over southern, central, and eastern Europe generally. Lowest, below 29·2 ins. over the north of Scotland and the adjacent Islands. Gradients somewhat steep over Ireland, England, and the north of France. Rising at our western and northern stations later, falling over northern, central, and eastern Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale ⟶ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week there has been a continuation of high pressure over south-western and south-eastern Europe, and of low pressure in the extreme north-west. In the latter region three primary depressions have been observed moving from south-west to north-east, while somewhat to the southward shallow secondary disturbances have travelled in a nearly parallel direction across England. The weather over the north-western and northern countries has consequently been very changeable and showery; at times thunderstorms have been both frequent and severe. The wind, too, which has varied mainly between South-West and North-West in direction, has on some occasions blown very strongly on the western and southern coasts of our Islands and the north coast of France, as well as on the eastern shores of the North Sea and over Scandinavia. Temperature had decreased, and at the end of the week the general appearance was becoming autumnal. Over the Mediterranean and the southern and eastern countries the weather has been much finer, the winds light and variable, and temperature high.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 194.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	54·7	+20·9	53	+21	EASTBOURNE	43·4	- 1·6	43	- 1
OSWALDKIRK (Yorkshire)	39·7	+ 8·7	39	+10	VENTNOR	41·4	?	41	?
WORKSOP	39·3	+ 7·0	39	+ 8	SOUTHPORT	46·2	?	45	?
THURCASTON (Leicestershire)	44·6	+ 8·4	44	+ 9	COLWYN BAY	? 47·2	?	? 47	?
MARGATE	45·2	+ 3·2	45	+ 4	NEWQUAY	48·3	+ 3·3	49	+ 4
WESTBOURNE (Sussex)	40·6*	- 5·4	41*	- 4	TORQUAY	50·9*	+ 5·1	51*	+ 6
BRIGHTON	39·6	- 8·4	40	- 8	GUERNSEY	45·0*	- 8·6	45*	- 8

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV No. 34.] *Third Series.* WEEK ENDING SATURDAY, AUGUST 28TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 200.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	38	63·3	49·0	55·9	2 above	97	+12	0	0	1536*	+204	615	− 8
	1. SCOTLAND, EAST	72	37	64·8	49·2	56·5	1 above	102	+ 2	0	0	1723	+ 86	661	+ 12
	2. ENGLAND, N.E.	70	46	65·5	52·3	58·5	1 above	116	+16	0	0	1891	+163	471	− 78
	3. ENGLAND, EAST	72	44	67·0	51·5	58·8	0 (average)	118	− 3	0	0	2273	+251	493	−124
	4. MIDLAND COUNTIES	73	44	66·1	50·7	57·9	1 below	111	− 7	0	0	2240	+212	504	−115
	5. ENGLAND, SOUTH	71	48	66·4	54·9	60·3	0 (average)	128	− 3	0	0	2478	+296	297	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	69	45	63·5	51·5	57·1	1 above	106	+ 5	0	0	1855	+140	442*	− 20
	7. ENGLAND, N.W.	69	44	64·4	52·2	58·0	0 (average)	112	− 1	0	0	2065	+215	367	− 92
	8. ENGLAND, S.W.	73	38	63·5	52·3	57·6	2 below	109	− 9	0	0	2351	+297	223	−138
	9. IRELAND, NORTH	69	43	62·3	50·5	56·0	1 below	98	− 7	0	0	1899	+ 78	403	+ 8
	10. IRELAND, SOUTH	69	44	63·2	52·0	57·3	1 below	107	− 7	0	0	2255	+195	242	− 57
	—CHANNEL ISLANDS	70	55	66·2	56·2	60·9	0 (average)	132	− 1	0	0	2656	+360	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 200.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	3	6 less	145	− 8	25·1	− 3·8	33	+12	33	+13	963	+141	30	+ 4
	1. SCOTLAND, EAST	3	5	2 less	133	+ 7	19·8	+ 0·3	39	+ 7	39	+ 8	1041	+ 74	33	+ 3
	2. ENGLAND, N.E.	5	11	6 more	120	+ 3	15·2	− 0·7	39	+ 6	40	+ 7	1129	+167	36	+ 6
	3. ENGLAND, EAST	5	8	3 more	118	+ 4	14·8	− 1·0	38	− 3	40	− 1	1230	+ 94	39	+ 3
	4. MIDLAND COUNTIES	5	7	1 more	119	+ 7	17·9	+ 0·6	35	− 2	36	− 1	1172	+146	37	+ 4
	5. ENGLAND, SOUTH	5	11	5 more	110	+ 3	18·1	+ 1·0	41	− 2	43	− 1	1266	+ 78	41	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	6	4 less	145*	+13	27·2	− 1·6	35	0	35	0	1073	+ 36	34	+ 2
	7. ENGLAND, N.W.	5	5	3 less	136	+15	21·1	+ 1·0	31	− 3	31	− 1	1159	+101	36	+ 3
	8. ENGLAND, S.W.	6	13	6 more	140	+18	27·1	+ 4·4	37	− 6	38	− 5	1257	+ 23	40	0
	9. IRELAND, NORTH	6	9	1 more	155	+12	26·9	+ 4·2	29	+ 1	30	+ 2	965	+ 22	31	+ 1
	10. IRELAND, SOUTH	6	10	2 more	148	+18	28·7	+ 4·7	35	+ 3	36	+ 3	1021	− 43	33	− 1
	— CHANNEL ISLANDS	6	15	9 more	149	+21	22·8	+ 4·2	49	− 4	51	− 2	1310	− 91	43	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period continued in a very unsettled state generally, but the falls of rain were less frequent and heavy in the extreme north and north-west than elsewhere. Sharp thunderstorms were experienced over England on the 24th and 25th.

Temperature did not differ materially from the mean, but was slightly above it in the north, and below it in the south and south-west. The highest of the maxima were registered, as a rule, towards the end of the week, and ranged from 73° in the Midland counties and England S.W., to 69° in Ireland, and 68° in Scotland N. The lowest of the minima, which were recorded on rather irregular dates, ranged from 37° in Scotland E., and 38° in Scotland N. and England S.W., to 48° in England S., and to 55° in the Channel Islands.

Rainfall was less than the mean in Scotland and in England N.W., but more elsewhere ; the excess in most parts of England and in the Channel Islands was very considerable.

Bright Sunshine exceeded the mean in Scotland N. and E., England N.E., and over Ireland, and just equalled it in Scotland W. ; in all other parts of the Kingdom it was rather less. The percentage of the possible duration ranged from 51 in the Channel Islands, to 43 in England S., and to 30 in Ireland N.

Barometer and Wind.—During the whole of this period depressions passed over the Kingdom from the Atlantic, sometimes skirting our north-western coasts, and at other times travelling directly over us. In addition to these primary systems many secondary disturbances were observed in different parts of our Islands. Southerly to South-Westerly or Westerly winds, fresh to strong in force, were consequently most prevalent over all the more southern parts of the country, but in the northern districts the wind occasionally became South-Easterly or Easterly.

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213 | 70 8 | 97 1897

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 199 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	61	45	58·9	49·6	54·0	+ 1·8	84	0	3	0·86	+ 0·06	*	*	*	*
	Stornoway	67	40	63·1	48·3	55·3	+ 2·0	93	0	6	0·30	− 0·57	42·6	+16·2	42	+17
	Wick	64	39	61·1	48·9	54·6	+ 0·7	88	0	3	0·19	− 0·43	*	*	*	*
	Lairg Ⓢ	70	38	66·3	47.2	57·6	+ 3·0	109	0	3	0·12	− 0·46	*	*	*	*
	Glencarron Ⓢ	67	41	64·5	47·4	55·4	+ 1·3	94	0	3	0·25	− 1·29	*	*	*	*
	Fort Augustus Ⓢ	68	39	64·7	51·2	57·5	+ 1·5	109	0	4	0·06	− 0·70	27·4	+10·4	27	+11
	Fort William Ⓢ	67	43	64·3	50·4	56·9	+ 0·5	104	0	4	0·46	− 0·92	28·8	+ 9·2	29	+10
1. SCOTLAND, E.	Nairn	72	40	67·7	47·0	56·7	+ 1·0	103	0	2	0·05	− 0 51	*	*	*	*
	Aberdeen	67	44	62·1	51·0	56·2	+ 0·6	99	0	2	0·61	− 0·03	47·1	+13·1	47	+14
	Braemar Ⓢ	62	37	60·6	47·1	53·4	+ 0·9	80	0	5	1·07	+ 0·16	30·7†	+5·0†	31†	+ 6†
	Ochtertyre Ⓢ	68	45	66·0	50·1	57·6	+ 1·6	109	0	3	0·56	− 0·24	*	*	*	*
	Leith	72	48	67·4	51·3	58·9	+ 1·5	118	0	3	0·17	− 0·36	*	*	*	*
	Marchmont Ⓢ	67	45	64·7	48·9	56·3	+ 1·1	100	0	4	0·51	− 0·22	41·0	+ 6·8	41	+ 8
2. ENGLAND, N.E.	Alnwick Castle	69	46	64·1	51·7	57·5	+ 1·8	109	0	6	1·23	+ 0·60	*	*	*	*
	Durham	70	48	68·1	49·8	58.4	+ 1·3	115	0	4	0·63	+ 0·10	38·6	+ 6·1	39	+ 7
	Shields	68	50	64·1	52·7	58·1	+ 1·2	113	0	4	0·63	+ 0·05	*	*	*	*
	Scarborough Ⓜ	69	50	64·6	52·4	58·1	+ 0·4	113	0	5	1·62	+ 1.10	45·4	?	46	?
	York	69	49	66·7	51·9	58·9	+ 0·8	118	0	5	1·08	+ 0·53	37·6	+ 5·8	38	+ 6
	Spurn Head	70	54	65·6	55·4	60·2	+ 1·5	127	0	3	1·51	+ 1·13	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	72	45	68·3	51·3	59·3	+ 0·2	121	0	5	1·08	+ 0·51	38·1	− 0·6	39	0
	Yarmouth	67	50	65·3	54·0	59·3	− 0·2	121	0	5	0·65	+ 0·15	*	*	*	*
	Geldeston	71	44	67·7	51·6	59·1	− 0·1	120	0	6	0·40	− 0·05	41·3	− 0·6	43	0
	Cambridge	71	47	68·1	51·3	59·2	− 0·4	120	0	3	1·30	+ 0·80	38·1	− 2·2	39	− 1
	Rothamsted	68	44	65·8	49·4	57·0	− 1·6	105	0	6	0·46	− 0·07	35·9	− 5·6	37	− 5
4. MIDLAND COUNTIES	Harrogate															
	Bawtry (Hesley Hall)	71	49	67·1	50·7	58·4	+ 0·1	115	0	6	0·98	+ 0·50	*	*	*	*
	Loughborough	71	45	67·6	51·4	59·0	− 0·6	119	0	5	0·59	+ 0·06	*	*	*	*
	Stamford (Duddington)	73	44	67·9	50·6	58·7	− 0·9	117	0	5	0·51	+ 0·01	*	*	*	*
	Cheadle Ⓜ	66	45	63·3	49·5	56·0	− 0·4	98	0	5	0·49	− 0·31	*	*	*	*
	Shirley (near Solihull)	70	46	65·4	51·2	57·9	− 1·0	111	0	5	0·56	?	*	*	*	*
	Churchstoke Ⓜ	69	47	64·9	51·2	57·6	+ 0·9	109	0	6	0·35	− 0·25	? 43·9	+ ?6·9	? 45	+? 8
	Hereford Ⓜ	72	46	68·5	51·2	59·3	+ 0·1	121	0	4	0·44	− 0·09	*	*	*	*
	Cirencester	67	44	64·7	48·7	56·1	− 1·3	99	0	6	1·36	+ 0·73	35·9	− 3·9	37	− 3
	Oxford	69	49	65·9	51·9	58·5	− 1·3	116	0	4	0·58	+ 0·08	35·2	− 5·7	36	− 5
5. ENGLAND, S.	London	71	48	68·0	52·9	60·0	− 1·1	126	0	5	0·87	+ 0·37	35·5†	− 1·7†	37†	0†
	North Foreland	69	53	67·1	55·9	61·2	+ 1·4	134	0	2	0·71	?	*	*	*	*
	Dungeness	69	53	67·0	56·9	61·7	+ 0·6	138	0	3	1·12	+ 0·64	*	*	*	*
	Hastings (St. Leonards)	68	54	66·5	55·9	60·8	+ 0·2	132	0	3	1·77	+ 1·28	42·5	− 2·9	44	− 1
	Southampton	69	50	66·9	54·1	60·1	− 0·6	127	0	7	1·41	+ 0·86	40·8	− 5·0	42	− 4
	Hurst Castle	67	55	66·0	57·3	61·4	+ 0·3	136	0	7	0·98	+ 0·46	*	*	*	*
	Shaftesbury Ⓜ	65	49	63·6	51·1	57·0	− 2·2	105	0	7	0·63	− 0·02	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	69	45	64·0	50·0	56·5	+ 0·1	102	0	5	0·94	− 0·28	*	*	*	*
	Glasgow	67	48	63·2	51·3	56·9	+ 1·0	104	0	4	0·35	− 0·55	23·4	− 5·6	23	− 5
	Ardrossan	67	49	63·0	52·1	57·2	0·0	106	0	4	0·50	− 0·38	*	*	*	*
	Glenlee Ⓢ	67	?	64·1	?	?	?	?	?	7	0·75	− 0·26	*	*	*	*
	Gilcrux	68	50	63·9	52·7	58·0	+ 2·4	112	0	7	0·30	?	39·9	?	40	?
	Douglas (Isle of Man)	65	48	62·6	51·6	56·8	+ 0·6	104	0	5	0·68	− 0·20	42·2	+ 5·4	43	+ 7
7. ENGLAND, N.W.	Stonyhurst	66	48	62·7	51·4	56·7	− 0·3	103	0	6	1·01	− 0·17	21·7	−10·3	22	− 9
	Blackpool Ⓜ	69	46	66·4	50·9	58·2	− 0·3	113	0	5	0·38	− 0·34	38·4	+ 4·9	39	+ 6
	Manchester (Prestwich)	67	44	64·4	50·1	56·8	− 0·8	104	0	6	0·42	− 0·38	24·5	?	25	?
	Liverpool Obsy. (Bidston)	67	50	64·4	52·1	57·9	− 1·0	111	0	6	0·26	− 0·34	*	*	*	*
	Llandudno Ⓜ	69	52	65·1	54·7	59·6	+ 0·1	123	0	5	0·35	− 0·22	*	*	*	*
	Holyhead	66	53	63·6	53·9	58·5	0·0	116	0	4	0·40	− 0·30	*	*	*	*
8. ENGLAND, S.W.	Llandovery	73	38	66·1	48·4	56·7	− 1·8	103	0	7	1·88	+ 0·87	*	*	*	*
	Pembroke	63	55	62·0	56·3	59·0	+ 0·3	119	0	4	0·74	+ 0·12	43·7	+ 1·5	45	+ 3
	Clifton	65	50	63·4	53·4	58·1	− 1·1	113	0	6	1·47	+ 0·76	*	*	*	*
	Arlington (N. Devon)	64	46	61·4	49·4	55·0	− 2·6	91	0	7	1·43	+ 0·33	*	*	*	*
	Cullompton Ⓜ	68	43	65·1	49·3	56·7	− 2·5	103	0	6	1·18	+ 0·58	22·1	−18·0	23	−18
	Falmouth	65	52	64·3	53·9	58·8	− 0·6	118	0	7	0·60	− 0·24	46·3	+ 0·5	48	+ 2
	Plymouth	66	49	63·2	53·5	58·1	− 2·4	113	0	7	1·59	+ 0·99	37·4	− 4·6	39	− 3
	Prawle Point	64	51	62·6	53·9	58·0	− 1·0	112	0	6	1·73	+ 1·23	*	*	*	*
9. IRELAND, N.	Malin Head	63	47	60·6	51·7	55·9	− 1·2	97	0	4	0·35	?	*	*	*	*
	Londonderry	69	48	64·2	50·8	57·1	− 0·1	106	0	6	0·77	− 0·05	*	*	*	*
	Edenfel (Omagh)	68	46	62·4	49·9	55·8	+ 0·1	97	0	5	1·24	+ 0·44	*	*	*	*
	Belmullet	63	47	60·4	53·7	56·9	− 0·8	104	0	7	1·78	+ 0·81	*	*	*	*
	Markree Castle	68	43	63·5	48·3	55·4	− 0·6	94	0	7	1·43	+ 0·53	31·6	+ 3·8	32	+ 4
	Armagh	66	46	63·1	49·5	55·9	− 0·6	97	0	6	0·67	− 0·01	26·4	+ 0·4	27	+ 1
	Donaghadee	66	46	62·7	51·6	56·8	+ 0·3	104	0	6	0·52	− 0·18	*	*	*	*
	Edgeworthstown	64	46	61·1	48·1	54·2	− 2·1	85	0	4	0·75	− 0·03	*	*	*	*
10. IRELAND, S.	Dublin	69	51	65·3	53·2	58·9	+ 0·4	118	0	6	0·30	− 0·27	35·5	+ 0·6	36	+ 1
	Parsonstown	67	47	63·4	49·6	56·1	− 1·2	99	0	5	0·77	+ 0·07	38·0	+ 9·0	39	+ 9
	Kilkenny	68	48	64·4	51·0	57·3	− 1·0	107	0	5	0·97	+ 0·13	*	*	*	*
	Roche's Point	65	52	62·9	53·4	57·9	− 0·8	111	0	5	0·91	+ 0·01	*	*	*	*
	Valencia	63	49	61·6	52·9	57·0	− 1·7	105	0	6	1·50	+ 0·35	32·1	− 1·0	33	− 1
	Killarney	64	44	62·3	51·3	56·3	− 1·4	100	0	7	1·85	?	*	*	*	*
	Foynes	66	49	62·8	52·5	57·3	− 0·8	107	0	6	0·53	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	67	55	65·6	56·4	60·7	+ 1·0	131	0	6	0·96	+ 0·41	46·5	?	48	?
	Jersey	70	55	66·9	55·9	61·1	− 0·9	134	0	6	1·93	+ 1·43	47·8	− 6·2	50	− 5

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

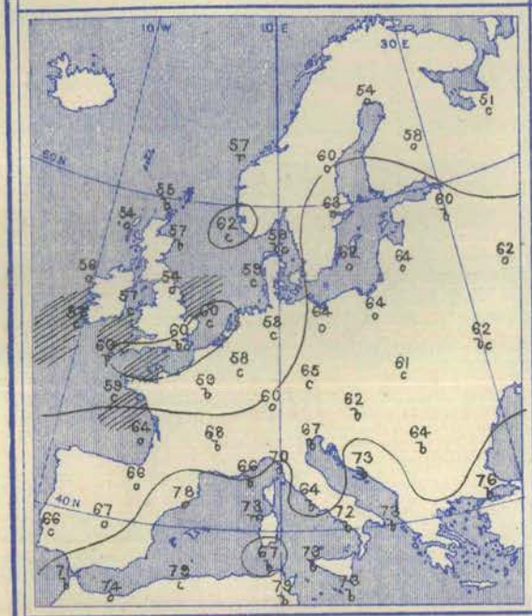
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 22nd August.

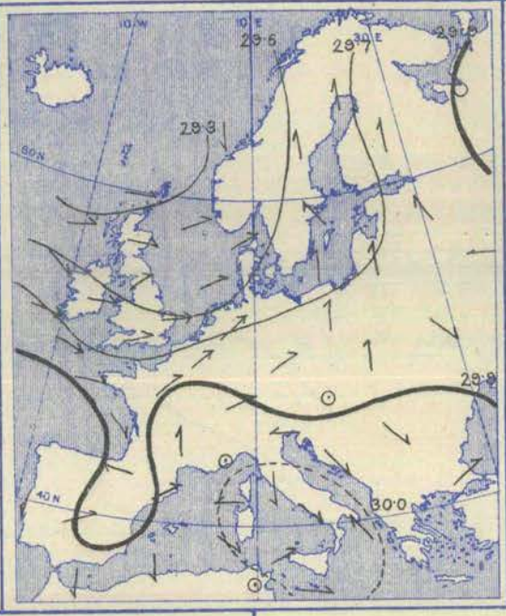
Temperature and Weather.

8 a.m.

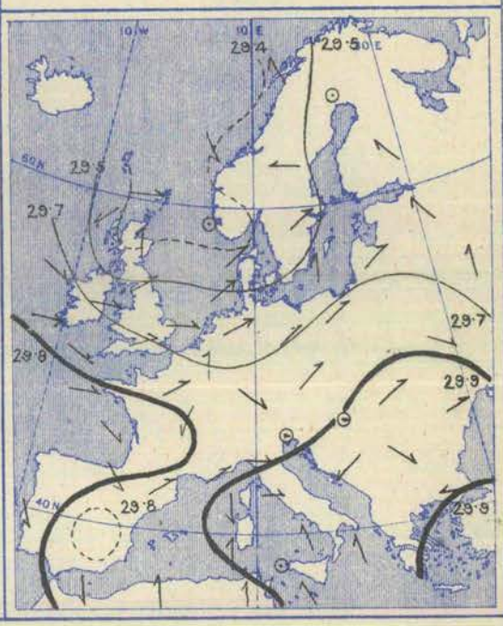


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine over the Mediterranean and the most southern and south-eastern parts of Europe, and fair, but cloudy, over Continental Europe, although rainy in some parts of France and on the shores of the Gulf of Finland; clear and bright in many parts of the United Kingdom, but not settled. Rain falling later in almost all stations over the British Islands and north-western Europe—as well as over the southern parts of Germany and France—heavily at Munich, Lyons, and Biarritz.

Temperature in morning highest, 79° to 70° at nearly all the Mediterranean stations, and exceeding 60° in almost all parts of Continental Europe, 63° to 60° over the southern counties of England. Lowest, (1) 51° at Archangel, 54° at Uleaborg; (2) 53° at Nairn, 54° at Stornoway and Shields, 55° at Liverpool. Not reaching 70° at any of our stations or in the north of France during the day, but touching 72° at Berlin, 73° at Munich, 79° at Nice, and 80° at Lyons, 84° in the south of Italy, 104° at Laghouat, and 109° at Biskra.

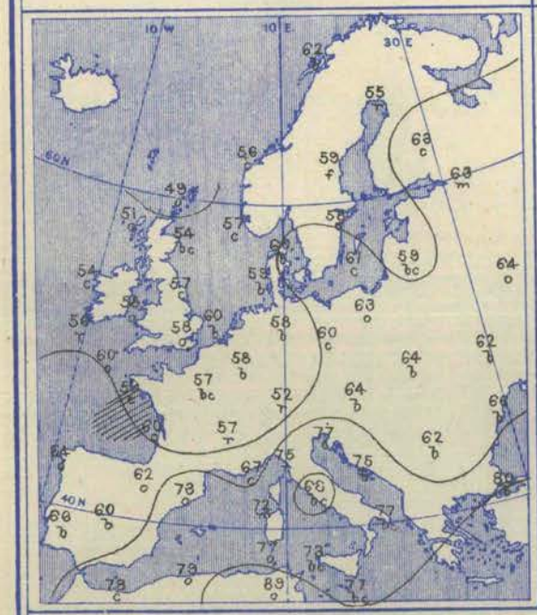
Wind light and very variable over south-western, south-eastern, eastern, and northern Europe, fresh to strong and cyclonic over the more north-western countries. Chiefly Westerly over Ireland and England, South-Westerly over north Germany, Southerly over Sweden. Moderating over our Islands later, except about Dover, where it continued to blow very strongly.

Barometer in morning highest, 30·0 ins. and more over Italy and all the neighbouring parts of the Mediterranean, and exceeding 29·8 ins. over the southern half of the Continent generally. Lowest, below 29·3 ins. over the Hebrides, Shetlands, and off the west of Norway, and below 29·4 ins. in a "V" shaped secondary off the east of Scotland. Rising throughout our Islands later, unsteady over France and Germany.

Monday, 23rd August.

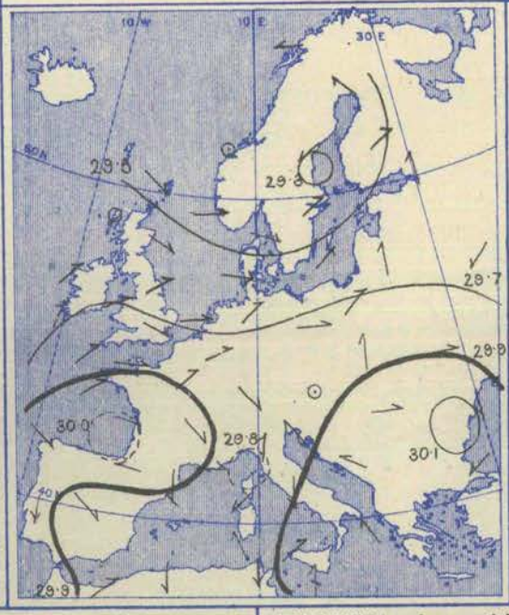
Temperature and Weather.

8 a.m.

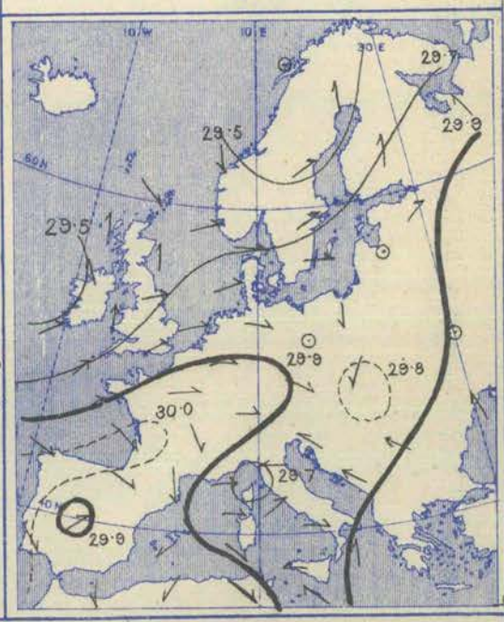


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine and bright over south-eastern Europe, fair over the greater part of the Mediterranean (rainy at Leghorn), fine and bright over Spain, and also in Scotland; changeable and showery over various parts of Ireland, England and the north of France, cloudy over north Germany, very rainy over south Germany. Rain falling later in moderate quantities over Ireland, England, and the west and north of France, as well as at some stations in northern Europe; a further heavy fall (1·0 in.) at Munich, and considerable amounts at Hermanstadt, Trieste, Florence and Leghorn.

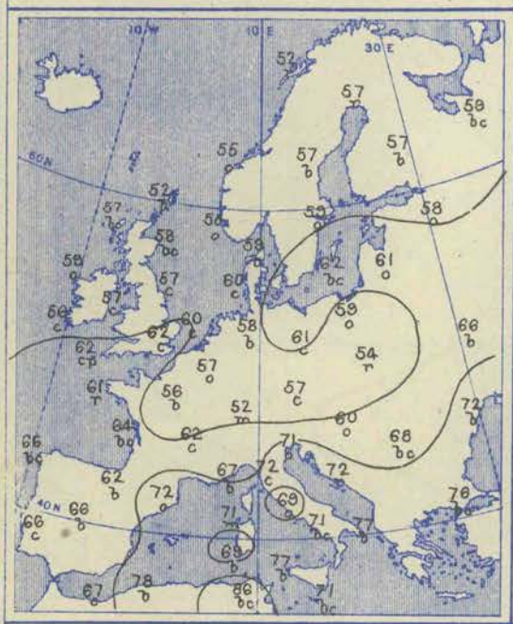
Temperature fallen over central, risen over northern Europe. Morning readings highest, 789° at La Calle, 79° at Algiers, 77° at Constantinople and Athens, 75° at Leghorn, 66° at Memel, 62° at the Helder, 60° at Scilly. Lowest, 49° at Sumburgh Head, 51° at Stornoway, 52° at Nairn, 54° at Malin Head, 55° at Haparanda. Rising later to between 59° and 63° in the south and east of Scotland to a little above 60° over Ireland, and to between 61° and 67° over England, and touching 68° at Paris, 70° at Berlin, 81° at Nice, 88° at Brindisi, 90° at Palermo, and 111° at Biskra

Wind (1) light and very variable (mainly anticlyconic over south-western and south-eastern Europe); light also over central Europe, fresh and very variable at most of the continental stations; (2) North-Westerly to South-Westerly (cyclonic) and of moderate strength over the British Islands and northern Europe, and Southerly, moderate, but freshening, in the extreme west of Ireland. Backing later to South-West over the southern parts of our Islands, and to South-South-East in Scotland, and freshening in the former regions.

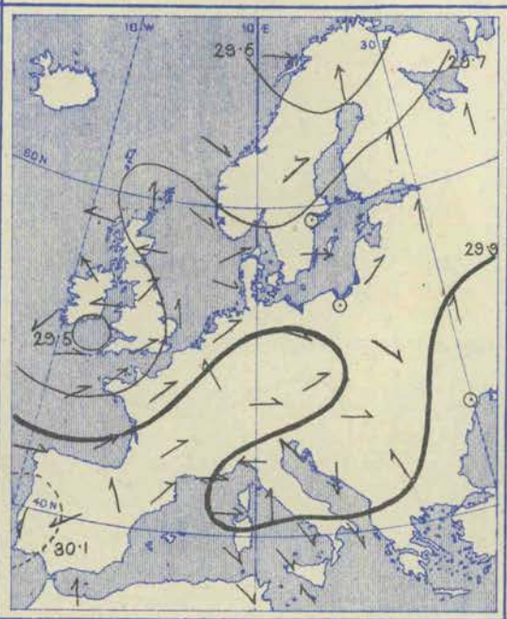
Barometer highest, 3·0 ins. to 29·9 ins. in an anticyclone covering the south of Russia, Turkey, and the south of Italy, and exceeding 30·0 ins. in other and rather complex systems over south-western Europe and the adjacent parts of the North Sea. Lowest, 29·3 ins. and less in an ill-formed depression lying over northern Europe and having its centre near Hernösand; and below 29·7 ins. off the west of Ireland. Falling decidedly over Ireland and the south-west of England during the day, rising over Scotland and Norway.

Tuesday, 24th August.

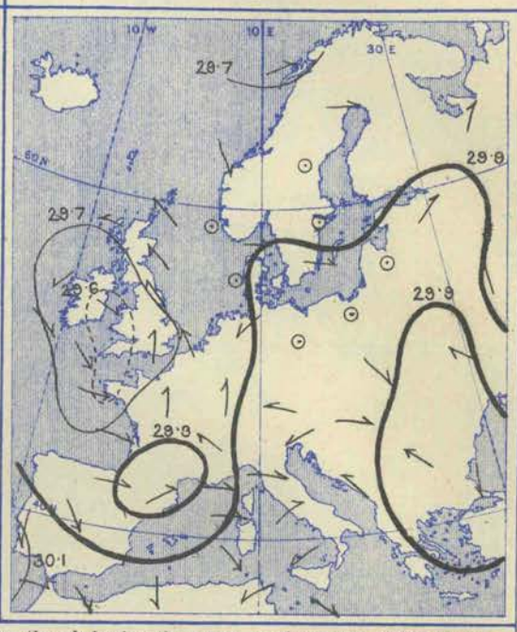
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Scotland and the eastern shores of the North Sea, as well as over Russia and many parts of south-eastern and southern Europe; becoming very dull and rainy over Ireland and England, as well as the north of France. Thunderstorms occurring very generally over the latter regions later, considerable falls of rain at Jersey, Scilly, London, and York, and nearly three quarters of an inch at Rochefort, and 0·6 in. at Cape Gris Nez; considerable falls at Hermanstadt, Cracow, and Warsaw.

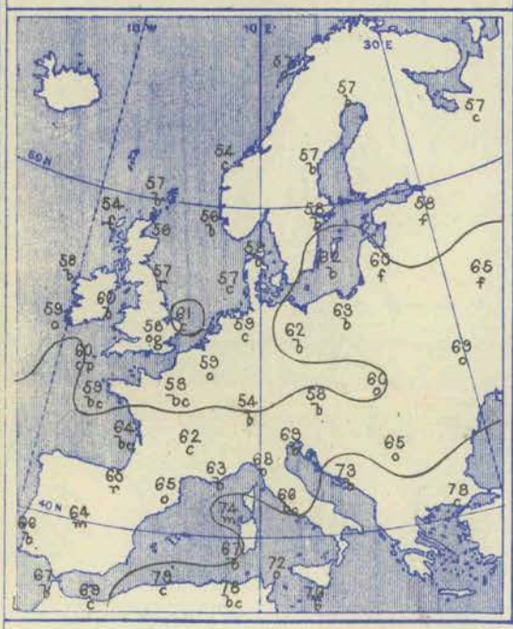
Temperature changing rather fitfully over our Islands, falling over central Europe. Morning readings highest, 78° at Algiers, 77° at Palma, Palermo, and Brindisi, 72° at Nicolaieff. Exceeding 60° over several parts of the Continent and the south of England. Lowest, (1) 52° at Bodö and Sumburgh Head, 53° at Nairn, 55° at Christiansund, Wick, and Parsonstown; (2) 52° at Belfort, 54° at Munster and at Warsaw. Rising later to 59° at Wick, to between 60° and 63° over Ireland, to between 65° and 70° over England; to 69° at Paris, 73° at Berlin, 79° at Nice, 90° at Palermo, and 104° at Biskra.

Wind very light and variable over the whole of south-western, southern, and eastern Europe. Variable and cyclonic in the north-west and north—viz., light from North in the south of Ireland, fresh Westerly to Southerly over the Channel and the southern half of England, South-Easterly over the northern parts of England, Ireland, and the Irish Sea, Easterly over Scotland; Westerly in Norway, South-Westerly to Southerly over Sweden and Finland. Becoming Northerly to North-Westerly later over all our western districts, not much change elsewhere.

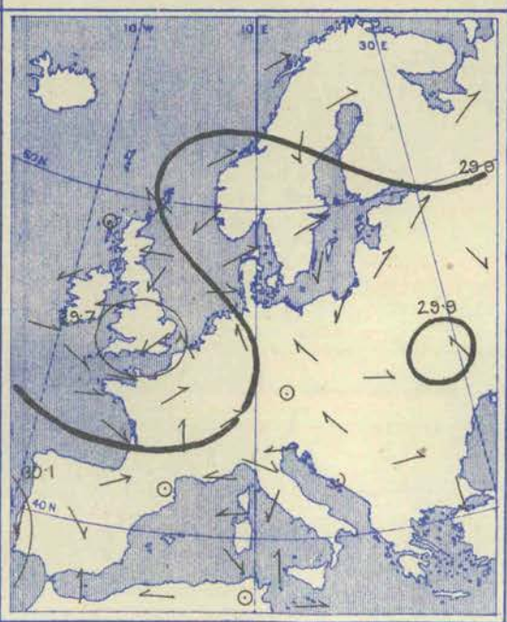
Barometer highest, 30·0 ins. and more to 29·9 ins. over Spain, and in a band spreading thence across France to south Germany, as well as in another system over the Black Sea and south of Russia. Lowest, 29·5 ins. and less over Lapland, and in a small depression covering the Bristol and St. George's Channels. Latter system moving eastwards later and becoming very complex.

Wednesday, 25th August.

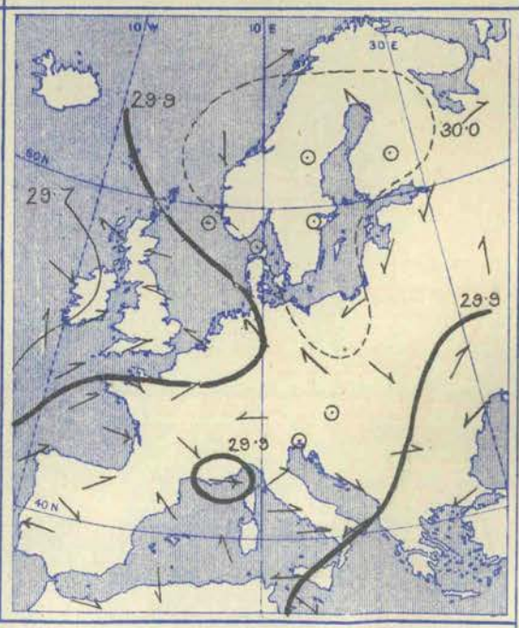
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over southern and south-eastern Europe, as well as over Germany, the Baltic, and the greater part of Scandinavia, fair as a whole over Scotland and Ireland, showery and unsettled over England, with thunder and lightning at the North Foreland. Sharp thunderstorms occurring over our Midland, Eastern, and South-Eastern counties later, and heavy hail in some localities; considerable rain over western Germany, and the northern half of France, also at Barcelona.

Temperature changing fitfully, but not very greatly. Morning readings highest, 79° at Algiers, 78° at La Calle and Constantinople, and exceeding 70° on the southern shores of the Mediterranean generally; 69° at Kiev, 65° at Moscow, 62° at Swinemunde and at the North Foreland. Rising later to 75° at Liverpool, 71° at Loughborough, and 70° at Nairn, but not exceeding 65° at many of the Irish and English stations. Rising to 68° at Paris, 73° at Berlin, and 81° at Nice. Succeeding night very cool over central England. 84° at Brindisi, 90° at Algiers, 93° at Aumale.

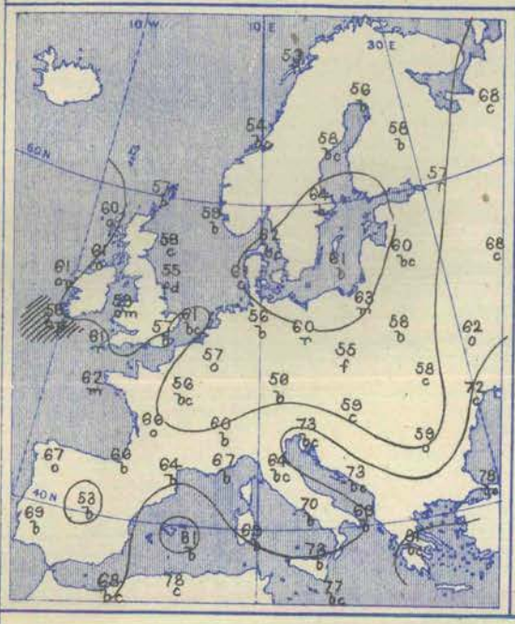
Wind still very light and variable over Scandinavia and all the eastern and southern parts of Continental Europe. A well-marked cyclonic circulation, however, of moderate to light breezes prevailing over the whole of the United Kingdom and its neighbourhood. Last named system dying out later and wind backing to the Southward in the west of Ireland.

Barometer highest, 30·12 ins. at Lisbon, and ranging from 30·0 ins. and more to 29·9 ins. over the whole of southern, central, and eastern Europe and the greater part of Scandinavia. Lowest, 29·7 ins. and less in a well-marked depression covering nearly the whole of England. The latter system filling up later, but a new one beginning to approach Ireland in the afternoon.

Thursday, 26th August.

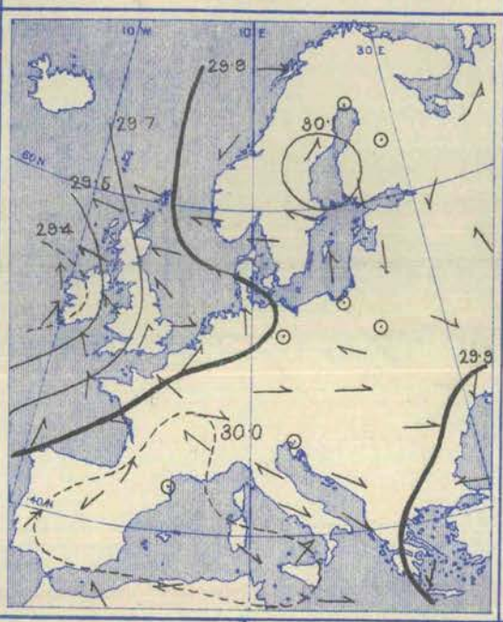
Temperature and Weather.

8 a.m.

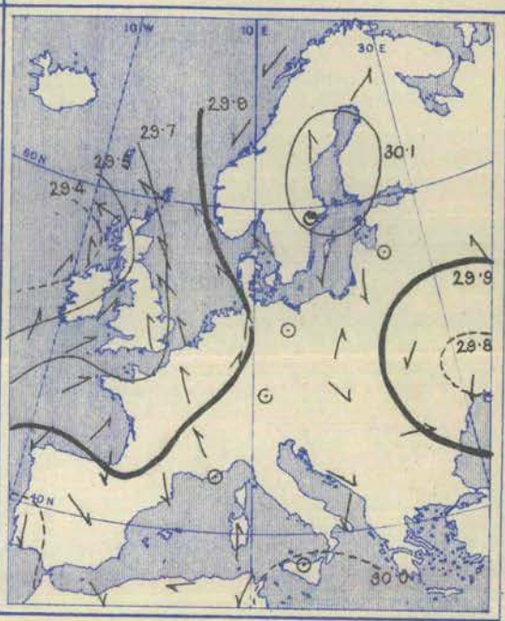


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of Continental Europe, but rainy at St. Petersburg and in some parts of France; fine also over the greater part of England, but dull and rainy over Ireland, Cornwall, and Devonshire. Much rain falling later over France (heavy over Brittany), Ireland, England, and the south and east of Scotland—more than an inch at Cracow also; thunder and lightning occurring at a few of our own stations, and at Fanö.
Temperature in morning highest, 78° at Algiers, 77° at Malta, and exceeding 70° at several of the Mediterranean and Adriatic stations; 69° at Lisbon, and exceeding 60° on the shores of the English Channel and the Baltic, 68° at Archangel. Lowest, 53° at Bodö, 54° at Christiansund, 57° at Sumburgh Head, Malin Head, York, and Oxford; 55° to 58° over the greater part of Germany. Rising later to between 65° and 70° over Great Britain and the northern parts of France and Germany, to 71° at Brussels, 75° at Lyons, 80° at Nice, 84° at Cagliari and Palermo, 88° at Tunis, and 106° at Biskra.

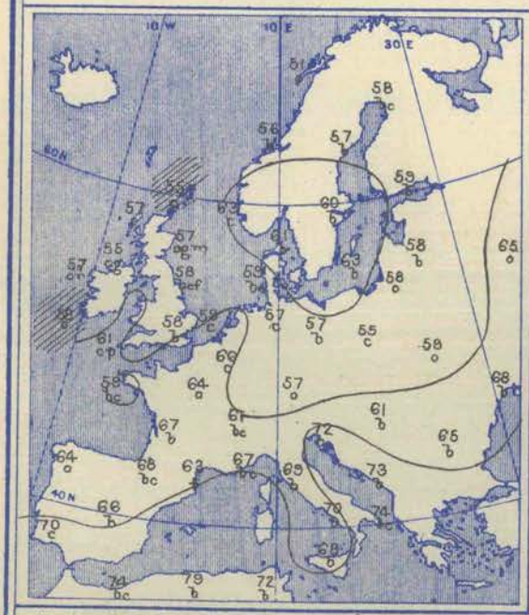
Wind continuing very light and variable over the Continent as a whole; South-Westerly to South-Easterly (cyclonic, but not strong) over the British Islands and their neighbourhood, but Easterly in the west of Norway and over Denmark; Westerly and strong at Bodö. Very little change in our Islands later, except of a local and temporary character.

Barometer highest, 30·1 ins. and more to 29·9 ins. over northern Europe, and 30·0 ins. to 29·9 ins. over the southern and south-western countries; 30·1 ins. over the Azores. Lowest, below 29·4 ins. in a well-marked depression over the west of Ireland, and below 29·8 ins. in a very shallow secondary between Yarmouth and the Helder. Some very small and shallow local disturbances appearing in various parts of the Kingdom later; western depression moving northwards very slowly.

Friday, 27th August.

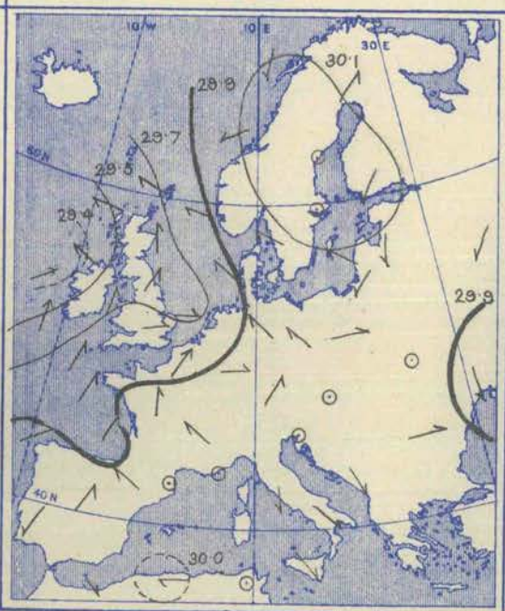
Temperature and Weather.

8 a.m.

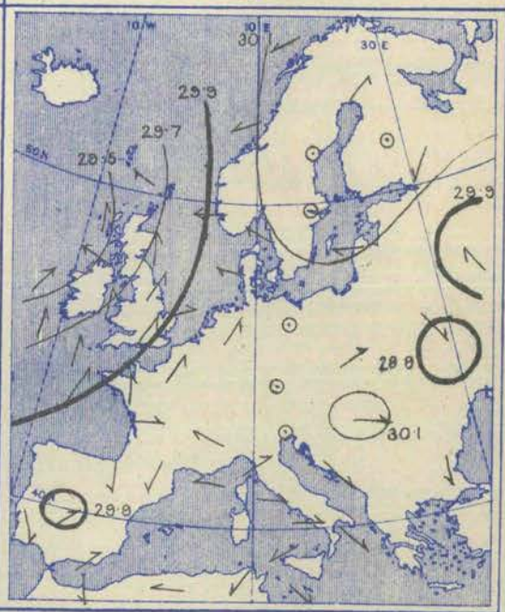


Barometer and Wind.

8 a.m.



6 p.m.



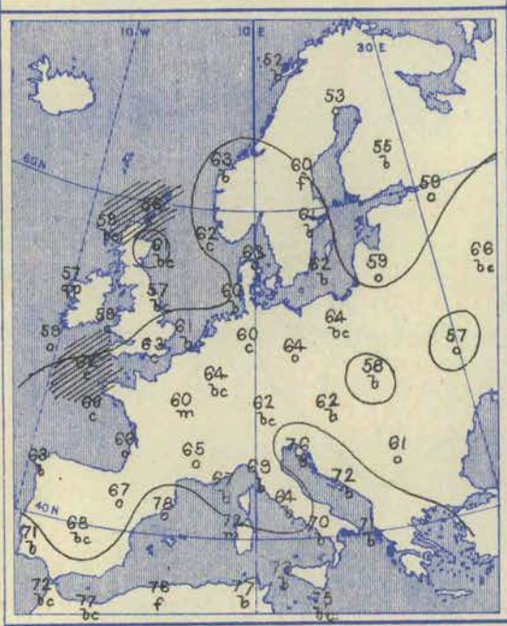
Weather in morning fine and bright over nearly the whole of Continental Europe and the Mediterranean, as well as over the greater part of England and the east of Ireland; cloudy at our extreme western and northern stations, with rain locally in Scotland, the west of Ireland, and the south-west of England. Showers falling sporadically in all the last-named districts later, as well as in many parts of France; thunder and lightning occurring at Lyons, but the condition continuing fine over most of England and the countries lying to the eastward of the North Sea.
Temperature rising over France. Morning readings highest, 82° at Sfax, 78° at Barcelona, 74° at Brindisi, 71° at Odessa, 64° at Neufahrwasser and Karlstadt, 63° at Skudesnaes, 62° at Dungeness and Hurst Castle. Lowest, (1) 51° at Bodö, 54° at Uleaborg, 57° at Hernösand; (2) 55° to 59° at the Irish and Scotch stations, 57° to 59° over the northern and central parts of England. Rising later to 72° at Nairn and Leith, and to between 70° and 65° over the greater part of our Islands and the north of France, to 73° at several German stations, to 81° at Biarritz, 83° at Lyons, 86° at Gap, Palermo, and Algiers, 90° at Sfax, and 102° at Biskra.

Wind light and and variable over almost the whole of the Continent, but South-Westerly to South-Easterly (cyclonic), and moderate in force, over the British Islands, the North Sea and west of Norway. No important change later.

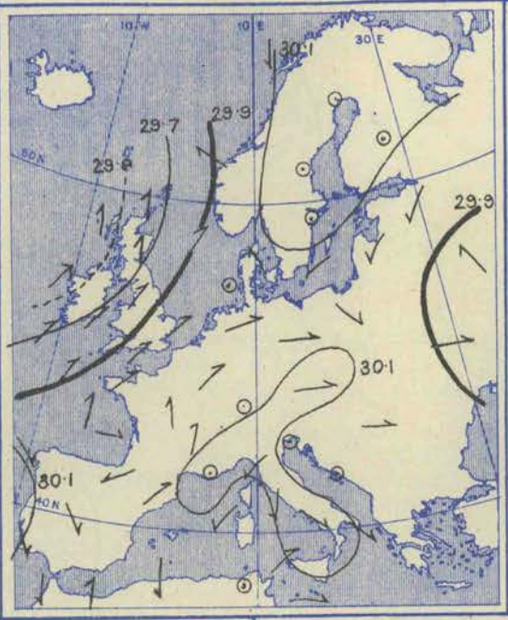
Barometer highest, 30·1 ins. and more to 30·0 ins. over nearly the whole of northern Europe, and exceeding 30·0 ins. over the southern half of Spain, the Mediterranean, Switzerland, and in a "col" stretching thence in a northerly direction to the Baltic. Lowest, 29·4 ins. and less in a depression off the north-west of Ireland. Rising slowly over our Islands all day, falling slightly over Scandinavia.

Saturday, 28th August.

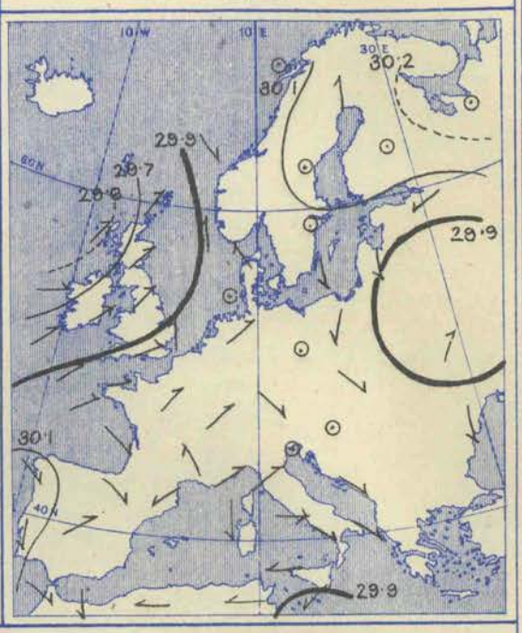
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over Continental Europe as a whole, though overcast in several places and foggy at Hernösand; fine also over the eastern parts of Great Britain, but dull in the west of Ireland, and, locally, in some parts of Scotland and England. Showers falling in several localities later, and steady rain setting in over Ireland towards midnight and spreading eastwards.

Temperature in morning highest, 78° at Barcelona, and exceeding 70° over the Adriatic, and on the eastern, southern, and western shores of the Mediterranean; exceeding 60° over France and south Germany as a whole, as well as over the Baltic, Scandinavia, and the southern and eastern parts of Great Britain. Lowest, (1) 52° at Bodö, 53° at Haparanda and Uleaborg, 55° at Kuopio and Hangö; (2) 56° at Sumburgh Head, and 57° to 59° at the stations in Ireland and the west of Scotland. Rising later to between 60° and 64° over Ireland, touching 70° or 71° in several parts of Great Britain, 73° at Berlin and Paris, 79° at Nice, 81° at Lisbon and Biarritz.

Wind (1) light to moderate and anticyclonic over nearly the whole of northern, central, and southern Europe, but light and cyclonic over the southern half of Russia and the Black Sea; (2) moderate to fresh and cyclonic over the British Islands and north-western Europe; Southerly to South-Westerly over our Islands; Southerly to Easterly over Denmark and Norway. No decided change over our Islands till late at night, when wind in far west backed Southwards, and increased quickly in force.

Barometer highest, 30·1 ins. and more to 30·6 ins. over south-western, central, and northern Europe. Lowest, (1) below 29·6 ins. over the north-western parts of our Islands, and (2) below 29·9 ins. over the southern half of Russia and over the Black Sea. Rising very slowly, but generally, over our Islands and western Europe during the day, as well as over the western parts of the Continent.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; → = a fresh to strong breeze; → = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

In the course of the past week the weather has remained in a very changeable condition over north-western Europe and the British Islands, the dominant features being thunderstorms and heavy showers alternating with intervals of brilliant weather; these latter were accompanied by heavy dews when occurring by night, but very warm sunshine when occurring by day. During the first two days pressure was highest over south-western and south-eastern Europe, lowest in the north. On Tuesday a depression advanced directly over England from the south-westwards, and then filled up. A decided change then occurred—pressure becoming highest over northern, central, and southern Europe, while the depressions which appeared from the Atlantic skirted our north-western coasts in a north-easterly direction, although their secondaries travelled in a parallel direction immediately across England. At the close of the week there was no indication of any lasting improvement, but rather for an increase in the intensity of the disturbances, and the extent of the area affected by them. Over southern Europe the weather was remaining fine.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 200.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	37·1	+ 4·4	37	+ 5	EASTBOURNE	43 9	+ 0·5	45	+ 1
OSWALDKIRK (Yorkshire)	35.7	+ 5·9	36	+ 7	VENTNOR	38·7	?	40	?
WORKSOP	28·2	- 3·6	29	- 3	SOUTHPORT	38·6	?	39	?
THURCASTON (Leicestershire)	31·6	- 4·0	32	- 3	COLWYN BAY				
MARGATE	44·4	+ 3·4	46	+ 5	NEWQUAY	37·5	- 7·3	39	- 6
WESTBOURNE (Sussex)	37·7*	- 7·4	39*	- 7	TORQUAY	32·9*	-12·3	34*	-12
BRIGHTON	47·6	+ 0·4	49	+ 1	GUERNSEY	53·0*	- 0·5	55*	0

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV No. 35.] *Third Series.* WEEK ENDING SATURDAY, SEPTEMBER 4TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 206.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	68	31	59·5	46·1	52·5	1 below	74	− 8	0	0	1610	+196	615	− 8
	1. SCOTLAND, EAST	68	31	60·2	45·6	52·5	2 below	74	−22	0	0	1797	+ 64	661	+ 12
	2. ENGLAND, N.E.	71	39	62·3	49·4	55·6	1 below	95	−11	0	0	1986	+152	471	− 78
	3. ENGLAND, EAST	72	35	64·1	49·5	56·4	2 below	101	−16	0	0	2374	+235	493	−124
	4. MIDLAND COUNTIES	71	37	61·4	48·2	54·5	3 below	88	−26	0	0	2328	+186	504	−115
	5. ENGLAND, SOUTH	71	40	64·0	52·3	57·8	2 below	111	−18	0	0	2589	+278	297	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	63	40	58·7	48·8	53·5	2 below	81	−16	0	0	1936	+124	442	− 20
	7. ENGLAND, N.W.	67	41	60·0	50·2	54·9	3 below	90	−20	0	0	2155	+195	367	− 92
	8. ENGLAND, S.W.	68	40	61·0	50·7	55·6	3 below	95	−20	0	0	2446	+277	223	−138
	9. IRELAND, NORTH	65	36	58·7	48·1	53·2	3 below	78	−24	0	0	1977	+ 54	403	+ 8
	10. IRELAND, SOUTH	65	39	60·0	49·7	54·6	3 below	88	−24	0	0	2343	+171	242	− 57
	—CHANNEL ISLANDS	68	49	63·0	54·9	58·8	2 below	118	−12	0	0	2774	+348	68	− 80

Rainfall. / Bright Sunshine.

	DISTRICTS. (See p. 206.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	13	3 more	151	− 7	26·4	− 3·5	19	− 2	20	− 1	982	+139	30	+ 4
	1. SCOTLAND, EAST	6	11	5 more	139	+ 9	20·9	+ 0·8	25	− 6	26	− 5	1066	+ 68	33	+ 3
	2. ENGLAND, N.E.	7	20	15 more	127	+ 6	17·2	+ 0·7	28	− 2	30	− 2	1157	+165	35	+ 5
	3. ENGLAND, EAST	5	9	4 more	123	+ 5	15·7	− 0·6	43	+ 4	45	+ 5	1273	+ 98	40	+ 4
	4. MIDLAND COUNTIES	6	17	12 more	125	+10	19·6	+ 1·8	33	− 3	35	− 2	1205	+143	37	+ 4
	5. ENGLAND, SOUTH	5	11	6 more	115	+ 4	19·2	+ 1·6	43	+ 1	46	+ 3	1309	+ 79	41	+ 3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	29	19 more	152	+16	30·1	+ 0·3	25	− 8	26	− 6	1098	+ 29	33	+ 1
	7. ENGLAND, N.W.	6	25	17 more	142	+17	23·6	+ 2·7	32	− 1	33	0	1191*	+100	36	+ 3
	8. ENGLAND, S.W.	7	25	17 more	147	+21	29·6	+ 6·2	41	− 1	44	0	1298	+ 22	40	0
	9. IRELAND, NORTH	7	21	14 more	162	+14	29·0	+ 5·5	30	+ 2	32	+ 3	995	+ 25	31	+ 1
	10. IRELAND, SOUTH	7	20	12 more	155	+21	30·7	+ 5·9	33	+ 1	35	+ 2	1054	− 42	33	− 1
	— CHANNEL ISLANDS	6	12	6 more	155	+23	24·0	+ 4·9	43	− 7	46	− 6	1353	− 98	43	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was again in a very unsettled, rainy condition, but with some fine intervals, the latter being most marked in the southern and south-eastern districts. Thunder and lightning occurred in many parts of England during the latter part of the period.

Temperature was below the mean in all districts, the deficit ranging from 1° in Scotland N. and England N.E. to 3° in most of the western districts and in the Midland counties. The highest of the maxima were registered on August 30th, and ranged from 72° in England E. to 65° in Ireland and 63° in Scotland W. The lowest of the minima, which were recorded on September 4th, ranged from 31° in Scotland N. and E. (at Lairg and at Braemar) to 41° in England N.W., and to 49° in the Channel Islands.

Rainfall was greatly in excess of the mean ; in England N.E. the fall was as much as four times the normal, and in nearly all other parts of the Kingdom two or three times. The greatest falls at any individual stations were 4·37 ins. at Glenlee and 4·82 ins. at Douglas (Isle of Man).

Bright Sunshine was less than the mean in most districts, but slightly exceeded it in England S. and E. and over Ireland. The percentage of the possible duration ranged from 46 in England S. and the Channel Islands to between 26 and 20 in Scotland.

Barometer and Wind.—During the greater part of the period rather deep depressions passed over the Kingdom from the south-westward or westward, causing fresh or strong winds and occasional slight gales from between south and west. Towards the end of the week, however, the barometer became highest in the west and south-west, and the wind blew strongly from the North-Westward in the rear of some disturbances travelling away eastwards over the North Sea.

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213 | 70 9 | 97 1897

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 205 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°		°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	61	44	57·9	49·0	53·2	+ 1·4	78	0	6	0·44	- 0·36	*	*	*	
	Stornoway	64	38	57·9	47·3	52·4	- 0·3	73	0	6	2·33	+ 1·44	21·7	- 4·6	22	- 4
	Wick	65	36	60·4	45·1	52·4	- 0·9	73	0	5	0·43	- 0·18	*	*	*	*
	Lairg Ⓢ	68	31	62·8	42·6	51·9	- 2·0	69	0	6	0·42	- 0·17	*	*	*	*
	Glencarron Ⓢ	66	36	58·4	44·9	51·3	- 2·1	65	0	6	2·14	+ 0·56	*	*	*	
	Fort Augustus Ⓢ	67	34	60·2	46·7	53·1	- 2·4	78	0	7	0·85	+ 0·05	21·6	+ 4·2	23	+ 6
	Fort William Ⓢ	64	36	58·9	47·4	52·9	- 2·9	76	0	7	2·19	+ 0·74	14·9	- 5·6	16	- 4
1. SCOTLAND, E.	Nairn	67	34	61·4	45·0	52·8	- 2·0	76	0	5	0·56	+ 0 04	*	*	*	*
	Aberdeen	64	36	59·9	47·3	53·3	- 1·5	79	0	6	0 51	- 0·11	32·1	- 1·2	33	- 1
	Braemar Ⓢ	60	31	55·6	41·2	48·1	- 3·5	47	2	6	1·30	+ 0·39	27·3†	+1·5†	28†	+ 2†
	Ochtertyre Ⓢ	63	36	60·7	45·6	52·8	- 2·3	76	0	5	1·80	+ 1·05	*	*	*	*
	Leith	68	41	63·6	49·6	56·3	- 0·2	100	0	5	0·79	+ 0·29	*	*	*	*
	Marchmont Ⓢ	65	37	59·7	44·6	51·8	- 2·7	69	0	6	1·80	+ 1·10	21·0	-12·4	22	-11
2. ENGLAND, N.E.	Alnwick Castle	66	41	62·4	48·1	54·9	0·0	90	0	7	2·07	+ 1·47	*	*	*	*
	Durham	71	40	63·7	47·5	55.2	- 1·1	92	0	6	1·43	+ 0·93	25·8	- 5·6	27	- 5
	Shields	66	41	60·7	49·7	54·9	- 1·4	90	0	6	1·41	+ 0·86	*	*	*	*
	Scarborough Ⓜ	66	39	62·5	49·4	55·6	- 1·2	95	0	6	2·11	+ 1.59	29·4	?	31	?
	York	68	40	62·6	49·0	55·5	- 1·9	95	0	7	2·69	+ 2·15	30·9	- 0·1	33	0
	Spurn Head	69	43	62·1	52·7	57·2	- 0·9	106	0	7	2·23	+ 1·85	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	71	35	64·2	47·9	55·7	- 2·5	96	0	5	0·60	+ 0·05	38·0	+ 1·0	40	+ 2
	Yarmouth	70	41	64·3	51·1	57·4	- 1·3	108	0	5	0·75	+ 0·23	*	*	*	*
	Geldeston	72	38	65·6	49·6	57·3	- 1·3	107	0	5	0·51	+ 0·04	46·5	+ 5·8	49	+ 7
	Cambridge	70	39	64·7	49·3	56·6	- 2·5	102	0	5	0·71	+ 0·23	48·3	+ 9·1	51	+11
	Rothamsted	67	40	61·6	49·4	55·2	- 2·5	92	0	6	1·84	+ 1·32	38·6	- 0·7	41	0
4. MIDLAND COUNTIES	Harrogate															
	Bawtry (Hesley Hall)	71	40	63·3	49·1	55·9	- 1·7	97	0	6	1·92	+ 1·44	*	*	*	*
	Loughborough	69	41	62·6	49·6	55·8	- 2·8	97	0	6	1·58	+ 1·05	*	*	*	*
	Stamford (Duddington)	69	39	62·9	48·7	55·3	- 3·3	93	0	5	1·04	+ 0·52	*	*	*	*
	Cheadle Ⓜ	63	37	57·4	46·9	51·9	- 3·7	69	0	7	2·46	+ 1·67	*	*	*	*
	Shirley (near Solihull)	66	37	59·7	47·6	53·4	- 4·7	80	0	7	1·76	?	*	*	*	*
	Churchstoke Ⓜ	64	39	59·6	47·8	53·4	- 2·7	80	0	6	1·34	+ 0·76	32·8	- 3·3	35	- 3
	Hereford Ⓜ	67	39	62·2	46·9	54·2	- 4·2	85	0	6	1·21	+ 0·68	*	*	*	*
	Cirencester	66	39	63·4	47·4	55·0	- 1·7	91	0	7	2·63	+ 2·01	30·6	- 7·7	33	- 7
	Oxford	67	40	61·6	50·1	55·6	- 3·5	95	0	4	1·74	+ 1·24	34·5	- 5·3	37	- 4
5. ENGLAND, S.	London	71	41	65·3	50·1	57·3	- 3·2	107	0	6	1·27	+ 0·77	41·8†	+ 5·8†	44†	+ 7†
	North Foreland	69	43	64·1	52·9	58·2	- 1·2	113	0	4	0·38	?	*	*	*	*
	Dungeness	67	42	64·9	54·9	59·7	- 0·7	124	0	6	0·53	+ 0·05	*	*	*	*
	Hastings (St. Leonards)	69	42	64·6	52·5	58·3	- 1·6	114	0	5	1·09	+ 0·60	40·7	- 3·2	44	- 1
	Southampton	68	44	64·9	51·6	57·9	- 2·3	111	0	6	2·48	+ 1·92	47·1	+ 2·3	51	+ 5
	Hurst Castle	66	48	63·6	55·0	59·1	- 1·5	120	0	5	0·93	+ 0·40	*	*	*	*
	Shaftesbury Ⓜ	64	40	60·5	48·8	54·4	- 4·0	87	0	?	?	?	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	42	57·9	49·6	53·3	- 2·3	79	0	7	2·20	+ 0·91	*	*	*	*
	Glasgow	62	40	59·1	49·0	53·8	- 1·2	83	0	6	1·82	+ 0·92	23·2	- 5·5	24	- 4
	Ardrossan	62	41	58·6	50·3	54·3	- 2·3	86	0	7	1·62	+ 0·75	*	*	*	*
	Glenlee Ⓢ	63	42	59·4	43·3	51·0	- 3·8	63	0	7	4·37	+ 3·35	*	*	*	*
	Gilcrux	62	43	58·7	50·0	54·1	- 1·0	85	0	7	2·70	?	25·6	?	27	?
	Douglas (Isle of Man)	62	45	58·6	50·5	54·4	- 1·2	87	0	7	4·82	+ 3·95	26·3	- 9·9	28	- 8
7. ENGLAND, N.W.	Stonyhurst	63	41	59·0	48·9	53·7	- 2·6	82	0	7	3·04	+ 1·88	30·6	- 1·2	32	0
	Blackpool Ⓜ	66	45	61·6	51·3	56·2	- 1·5	99	0	7	2·44	+ 1·72	31·6	- 0·6	33	0
	Manchester (Prestwich)	67	41	59·7	48·0	53·6	- 3·3	81	0	7	2·42	+ 1·62	30·4	?	32	?
	Liverpool Obsy. (Bidston)	65	44	59·9	50·4	54·9	- 3·4	90	0	6	2·63	+ 2·03	*	*	*	*
	Llandudno Ⓜ	64	45	60·5	50·7	55·4	- 3·4	94	0	6	2·20	+ 1·62	*	*	*	*
	Holyhead	62	45	59·1	52·1	55·4	- 2·6	94	0	5	2 09	+ 1·39	*	*	*	*
8. ENGLAND, S.W.	Llandovery	65	40	61·7	46·9	53·9	- 3·9	83	0	7	2·59	+ 1·59	*	*	*	*
	Pembroke	62	47	60·3	53·9	57·0	- 1·1	105	0	7	1·79	+ 1·15	41·1	- 0·3	44	0
	Clifton	66	45	60·9	51·2	55·8	- 2·6	97	0	6	3·96	+ 3·26	*	*	*	*
	Arlington (N. Devon)	63	47	59·9	49·7	54·6	- 2·5	88	0	7	3·61	+ 2·54	*	*	*	*
	Cullompton Ⓜ	68	41	62·9	48·5	55·4	- 3·2	94	0	7	2·42	+ 1·82	37·1	- 2·4	40	- 1
	Falmouth	63	47	60·9	52·3	56·4	- 2·4	101	0	7	2·21	+ 1·35	48·8	+ 3·8	52	+ 6
	Plymouth	64	45	60·9	51·6	56·0	- 3·8	98	0	7	1·70	+ 1·08	37·7	- 3·7	41	- 1
	Prawle Point	63	43	60·4	51·7	55·8	- 2·8	97	0	7	1·46	+ 0·97	*	*	*	*
9. IRELAND, N.	Malin Head	63	41	58·0	49·0	53·3	- 3·3	79	0	7	1·31	?	*	*	*	*
	Londonderry	65	43	58·9	48·2	53·3	- 3·1	79	0	7	1·53	+ 0·73	*	*	*	*
	Edenfel (Omagh)	61	40	57·0	48·1	52·3	- 2·5	72	0	7	1·99	+ 1·21	*	*	*	*
	Belmullet	62	44	58·6	50·7	54·5	- 2·8	88	0	7	2·97	+ 2·05	*	*	*	*
	Markree Castle	64	42	59·3	48·1	53·4	- 1·8	80	0	7	2·18	+ 1·30	31·1	+ 3·4	33	+ 4
	Armagh	62	38	59·9	46·2	52·7	- 2·9	75	0	6	1·62	+ 0·96	28·4	+ 2·3	30	+ 3
	Donaghadee	65	42	59·3	48·9	53·9	- 2·3	83	0	7	3·38	+ 2·70	*	*	*	*
	Edgeworthstown	63	36	58·7	45·6	51·8	- 3·6	69	0	6	2·04	+ 1·34	*	*	*	*
10. IRELAND, S.	Dublin	65	41	60·5	49·2	54·6	- 3·0	88	0	7	2·07	+ 1·57	34·0	- 0·7	36	0
	Parsonstown	62	40	60·0	48·7	54·1	- 2·4	85	0	6	1·44	+ 0·78	35·7	+ 7·6	38	+ 8
	Kilkenny	64	39	60·3	47·6	53·7	- 4·1	82	0	7	1·85	+ 1·03	*	*	*	*
	Roche's Point	62	44	59·4	51·1	55·1	- 2·9	92	0	6	2·04	+ 1·14	*	*	*	*
	Valencia	62	47	59·9	52·0	55·8	- 2·4	97	0	7	2·19	+ 1·04	30·3	- 2·8	32	- 3
	Killarney	63	42	60·6	50·2	55·2	- 3·0	92	0	7	2·34	?	*	*	*	*
	Foynes	63	42	59·3	49·0	53·9	- 3·6	83	0	7	2·14	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	49	62·1	53·7	57·7	- 1·6	110	0	5	1·21	+ 0·63	40·3	?	43	?
	Jersey	68	50	63·9	56·0	59·8	- 1·8	125	0	7	1·09	+ 0·57	46·1	- 7·3	50	- 5

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

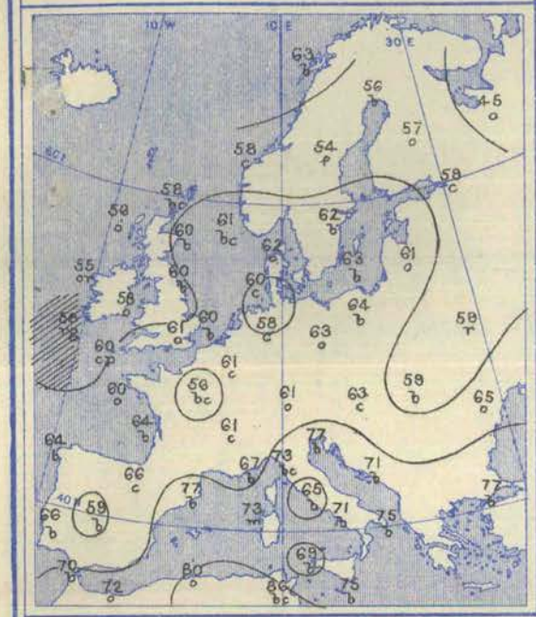
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 29th August.

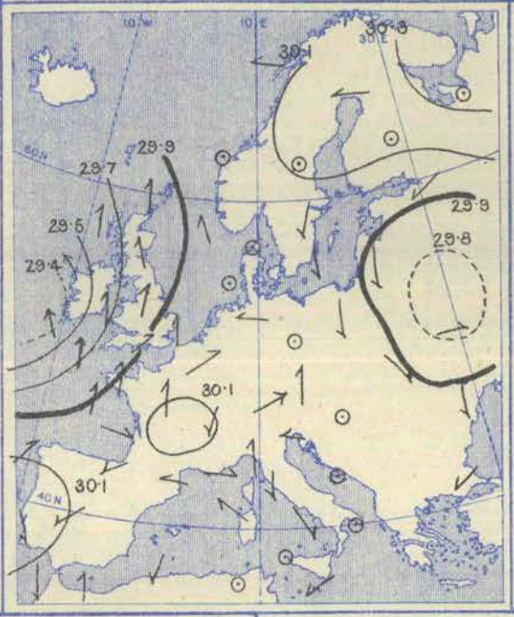
Temperature and Weather.

8 a.m.

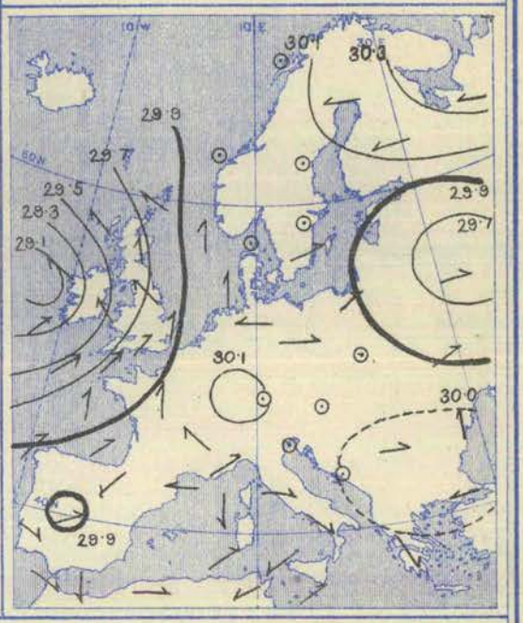


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine, and in most cases bright, over Spain and France on the one hand, and over Scandinavia, the Gulf of Finland, and many parts of the Baltic on the other, as well as over the eastern counties of England; dull, unsettled, and rainy over all the western parts of our Islands, and over many parts of central Europe, as well as at Kieff. Rain falling later all over our Islands (heavily in the west and north of Ireland), and considerable quantities in several parts of Germany; lightning at Jersey.

Temperature fallen in most parts of western Europe. Morning readings highest, 80° at Algiers, above 70° at most of the Mediterranean and Adriatic stations, and above 60° over the greater part of Continental Europe and the south and east of England. Lowest, (1) 45° at Archangel; (2) 54° at Liverpool Observatory, 55° over the north-western and central parts of Ireland, 56° at Stornoway, Ardrossan, and Paris. Rising later to between 60° and 67° over Great Britain, to 72° at Brussels, 73° at Paris, 82° at Nice, 86° at Palermo, and 90° at Madrid.

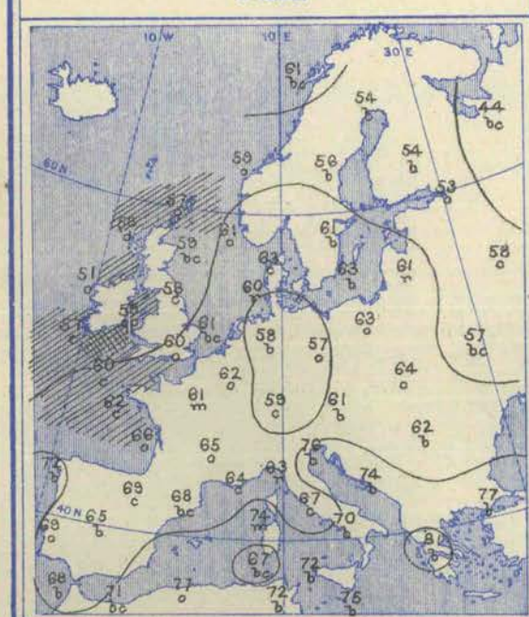
Wind light and very variable all over Continental Europe; Southerly and South-Easterly (cyclonic) over the British Islands—and blowing very strongly at the south Irish stations. Increasing later to a gale on all our western coasts, and freshening over the eastern counties also. Little change elsewhere.

Barometer highest, (1) 30·31 ins. at Archangel, and exceeding 30·0 ins. over Sweden, the Gulf of Bothnia, Finland, and the north of Russia generally; (2) 30·1 ins. and more to 30·6 ins. over Spain and France. Lowest, (1) 29·4 ins. and less over the west of Ireland, and still lower over the neighbouring parts of the Atlantic; (2) below 29·8 ins. over western and central Russia. A well-defined depression advancing over Ireland from the Atlantic later, and spreading eastwards over Great Britain. Russian depression shallow, but moving northwards.

Monday, 30th August.

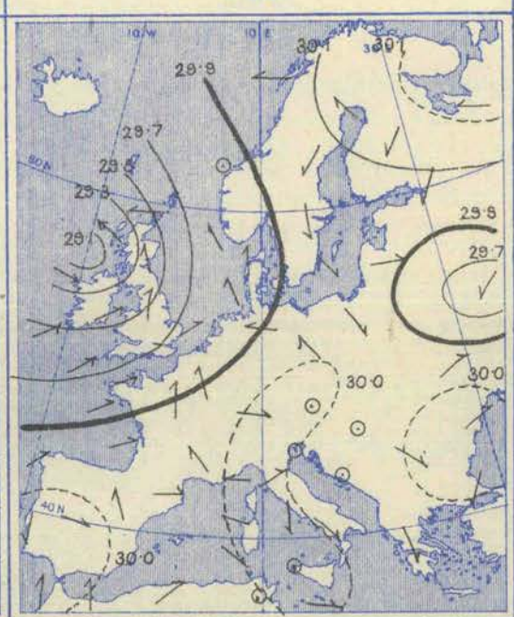
Temperature and Weather.

8 a.m.

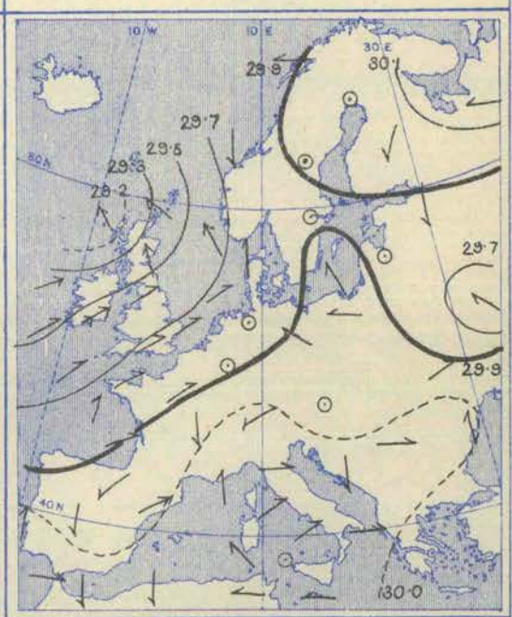


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over all the southern, south-western, and south-eastern countries of Europe, as well as over the north of Russia, Finland, and the north of Scandinavia, and the eastern parts of England; very dull, rainy, and unsettled in the north and west of our Islands. Rain falling later all over the British Islands and north-western Europe—the amounts being large at several of the southern and eastern stations; thunder and lightning reported in several localities.

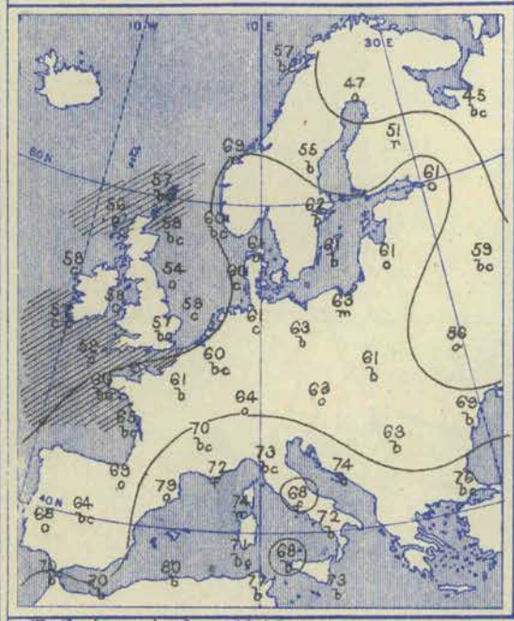
Temperature in morning highest, 77° at Constantinople and Algiers, and exceeding 70° on the southern side of the Mediterranean generally, 60° and more over the central and western parts of Europe generally, as well as on the eastern coasts of England. Lowest, (1) 44° at Archangel, 54° at Uleaborg, 58° at Moscow; (2) 54° at Donaghadee, 55° at Ardrossan, 57° at Belmullet, Wick, and Sumburgh Head. Rising later to between 60° and 65° over Ireland and the greater part of Scotland, to 67° at Jersey, 70° at Yarmouth and Cambridge, 71° in London, 72° at Berlin and Paris, 79° at Nice and Perpignan, 82° at Lisbon.

Wind (1) continuing light and very variable over the whole of southern and south-eastern Europe, and light, but cyclonic, over central and western Russia; (2) strong to moderate, but cyclonic, over the British Islands and north-western Europe generally. Westerly at our western stations, South-Westerly in the east, and Southerly to South-Easterly in the north. Continuing to blow very strongly (a gale in places) over our north-western districts during day, but moderating elsewhere, and tending to veer Southwards at the Scotch stations.

Barometer highest, 30·2 ins. and more to 30·0 ins. over northern Europe, and exceeding 30·0 ins. in several separate areas covering south-western, central, and eastern Europe. Lowest, below 29·1 ins. in a well-marked depression lying off our north-west coasts, and below 29·7 ins. in another system over central Russia. The north-western depression travelling northwards later, but a secondary system approaching the south-west of England in evening.

Tuesday, 31st August.

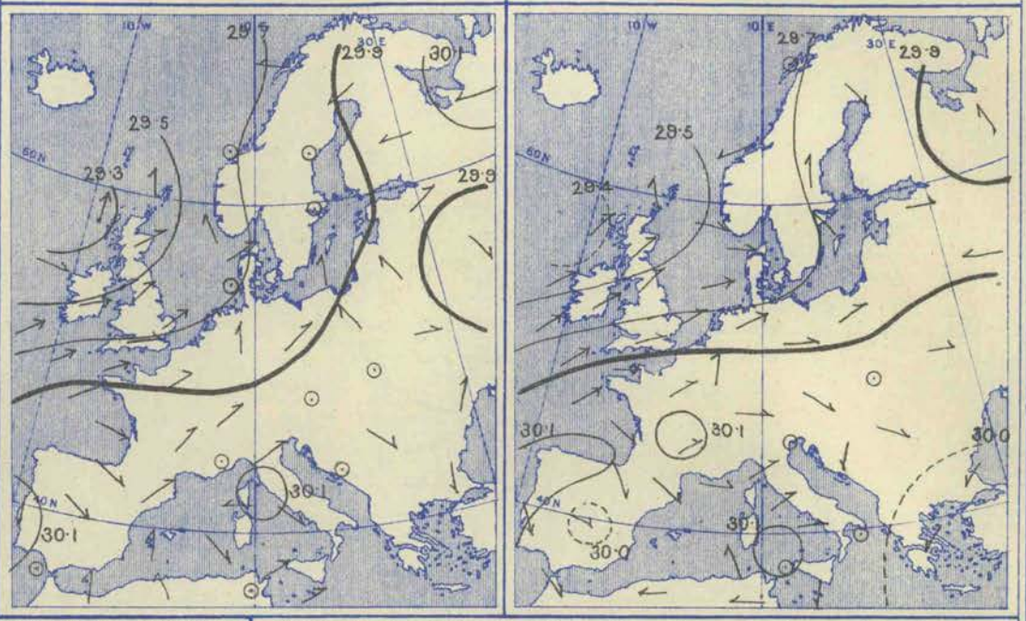
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over the Mediterranean, southern, and eastern Europe, as well as in many parts of Scandinavia and Great Britain, showery and unsettled, however, at several stations in the south-west and south of our Islands, in the Netherlands and west of Norway. Rain falling later very generally over Ireland, England, Germany, and Scandinavia, the amounts being heaviest at Faeder (1·26 ins.) and at Stockholm (0·71 in.) Thunder and lightning occurring in many parts of England, the north-west of Germany and Denmark.

Temperature in morning highest, 80° at Algiers and Palma, and exceeding 70° on the southern shores of the Mediterranean as a whole, as well as at Leghorn and Lesina; 60° and more over France, Austria, Germany, Denmark, and the south of Scandinavia. Lowest, (1) 45° at Archangel, 47° at Haparanda, 51° at Kuopio; (2) 54° at Shields, 55° at Malin Head, Parsonstown, and York, 56° at Oxford. Failing to reach 65° over Ireland and the west of Scotland during day, but touching 67° at Nairn, 68° at Leith, 71° in London and at Paris, 81° at Nice, and 86° at Perpignan.

Barometer and Wind. 8 a.m. and 6 p.m.

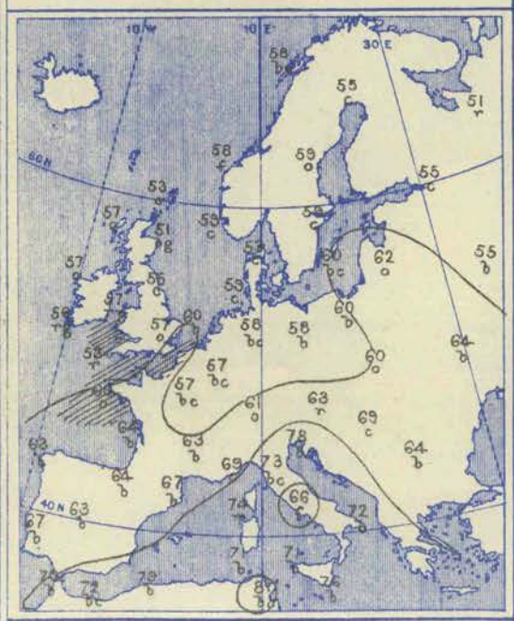


Wind remaining very light and variable over the southern and eastern countries of Europe; very strong from West-South-West over the English Channel and the south of the British Islands; strong from South in the west of Scotland; light in the East, and South-Easterly to Easterly over Norway, Finland, and the Baltic Provinces.

Barometer highest, 30·1 ins. and more to 29·9 ins. over all the southern, south-eastern, and central countries, as well as in the extreme north of Russia. Lowest, below 29·3 ins. off our extreme north-west coasts, and below 29·8 ins. in a shallow system over central Russia. Rising slowly over the British Islands all day.

Wednesday, 1st September.

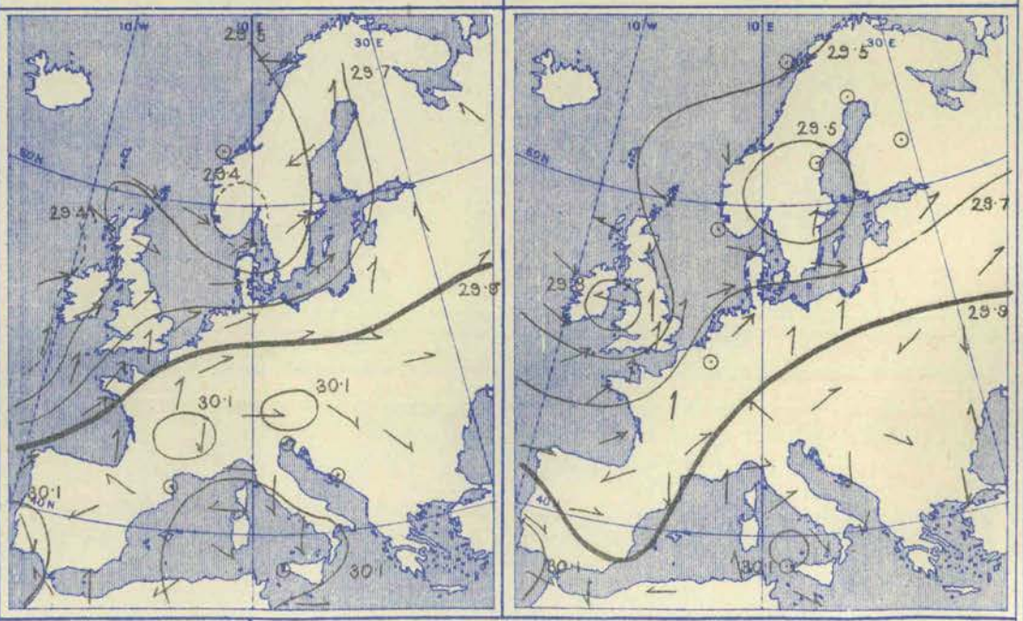
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over eastern, south-eastern, and southern Europe, as well as over the greater part of France and north Germany; becoming very unsettled and rainy over Ireland and England, but fair in the north of Scotland. Heavy rain falling later over our western districts, and considerable quantities over England also; showers reported at several of the Continental stations. Thunder and lightning in some parts of the British Islands.

Temperature below 80° at all European stations, and exceeding 70° on many parts of the shores of the Mediterranean; 64° at Rochefort, and at Cracow, and 61° to 60° at some of our south coast stations, 62° to 60° on the eastern shores of the Baltic. Lowest, 51° at Archangel, and at Aberdeen, 52° at Nairn, 53° at Sumburgh Head, and 55° to 57° over most of the western and northern parts of our Islands. Rising later to 57° at Sumburgh Head, 59° at several of the Irish stations, to between 60° and 65° over Great Britain, 68° at Berlin, 71° at Paris, and 81° at Nice.

Barometer and Wind. 8 a.m. and 6 p.m.



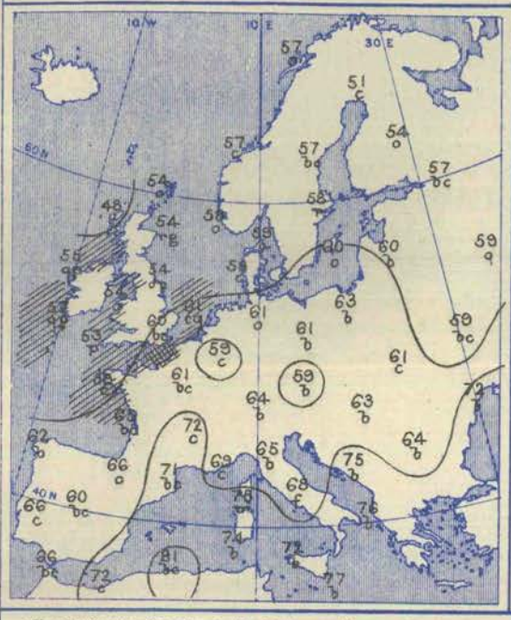
Wind mainly Southerly over Ireland and England, and blowing very freshly at the Channel stations. Increasing to a gale from South and South-West over the Channel and southern half of England, but veering to North-West in Ireland.

Barometer highest, 30·1 ins. and more to 29·9 ins. over all the southern half of Europe. Lowest, below 29·4 ins. in a new depression over the south of Norway, and also in a complex and low pressure system to the westward and south-westward of our Islands. New, well-defined, and deep depression reaching the mouth of St. George's Channel later, and travelling towards the north of England.

Thursday, 2nd September.

Temperature and Weather.

8 a.m.

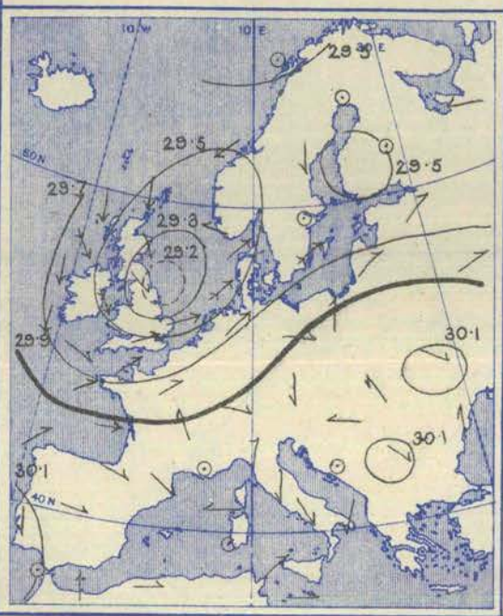


Weather in morning fine and bright over the greater part of Continental Europe, but rather unsettled over Norway; very rough and unsettled over the British Isles, the Netherlands, and the north of France. Considerable rain falling later over the British Islands and their neighbourhood, and very large quantities at Lyons and Munich. Thunderstorms reported in some parts of England.

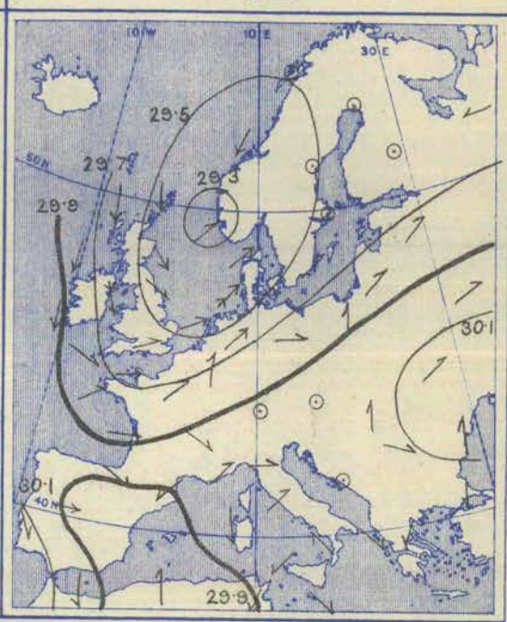
Temperature in morning highest, 81° at Algiers, and above 70° at most of the stations on the shores of the Mediterranean, the Adriatic, and the Black Sea; between 60° and 65° over north Germany, the Netherlands, and the south-east and south of England. Lowest, (1) 48° at Stornoway, 53° at Wick, 54° at Sumburgh Head, Aberdeen, Shields, and Holyhead, 55° at Belmullet and Parsonstown. Not touching 60° over Scotland and the north of Ireland during the day, but reaching 63° at Loughborough, 68° in London, 72° at Paris, 79° at Berlin and Nice, and 82° at Perpignan.

Barometer and Wind.

8 a.m.



6 p.m.



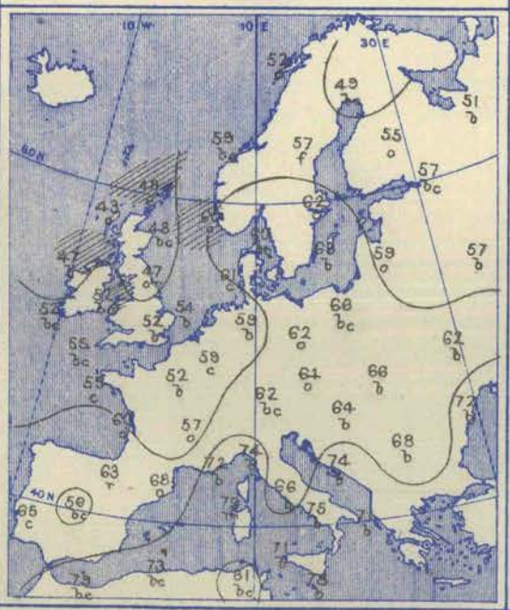
Wind still light and mainly anticyclonic over the south-western, southern, and eastern countries; cyclonic in the north and north-west, and blowing hard from North-West over the Irish Sea, and from South-West over the south and east of England and the Netherlands. A separate circulation prevailing over Finland and the Baltic, causing a gale at Wisby. North-Westerly winds becoming more general over our Islands later, and the South-Westerly gale in the south-east dying down.

Barometer highest, 30·1 ins. and more to 29·9 ins. over all the south-western, southern, and south-eastern parts of Europe. Lowest, below 29·2 ins. in a well-marked depression off the Yorkshire coast, and below 29·5 ins. in a shallower system over Finland. The North Sea depression moving towards Norway later, and the barometer rising throughout our Islands.

Friday, 3rd September.

Temperature and Weather.

8 a.m.

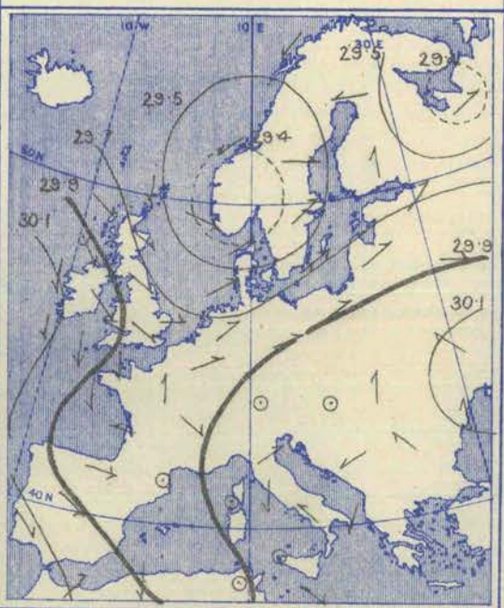


Weather in morning fine over south-eastern and central Europe, as well as over the greater part of the Mediterranean, the north of France, and many parts of the British Islands, north Germany, and the Baltic; cloudy and very unsettled in the south-west and south of France, with much rain in several places. Heavy rain falling later over the Hebrides and north of Ireland, and large quantities in several parts of Germany and France, thunder and lightning reported at several of the British stations, and at Nice and Perpignan.

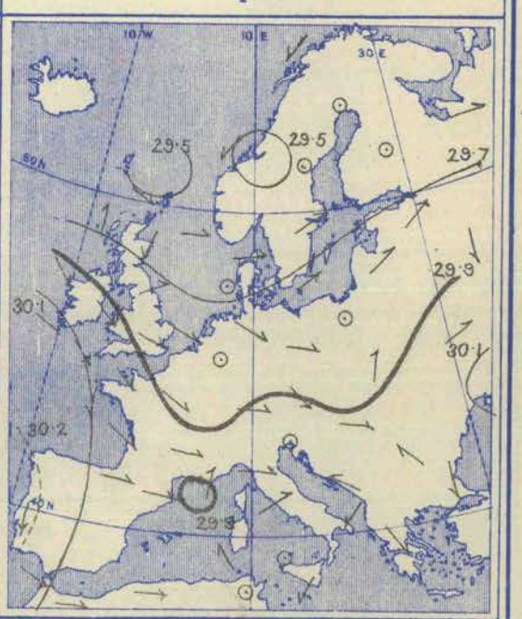
Temperature falling over the British Islands and western Europe generally. Morning readings highest, 81° at Sfax and La Calle, 79° at Nemours, and exceeding 70° at many of the Mediterranean stations, and at Nicolaieff; 60° to 66° over Austria and Germany, 63° at Wisby, 62° at Helsingfors and Faerder. Lowest, (1) 43° at Stornoway, 45° at Malin Head, 47° at Leith and Shields, 49° at Liverpool; (2) 40° at Haparanda, 52° at Bodö and Uleaborg; (3) 52° at Paris. Falling to reach 60° later at our northern and north-western stations as a whole, but touching 69° at Paris, 72° at Berlin, and 82° at Nice. Succeeding night very cold over the British Islands.

Barometer and Wind.

8 a.m.



6 p.m.

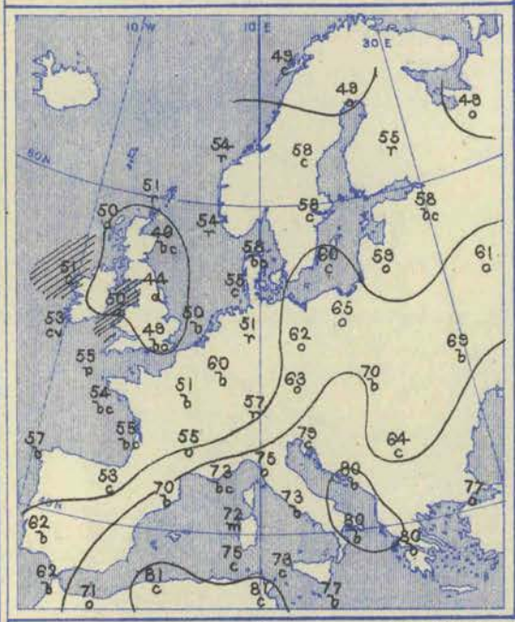


Wind remaining very light and anticyclonic over eastern, central, and south-eastern Europe, but cyclonic, and stronger in the west and north—very strong from North-West at our own north-western stations, moderate from between North and West over the United Kingdom as a whole, but South-Westerly over the Netherlands, Germany, and the Baltic, Easterly at Uleaborg, and North-Easterly in the north-west of Norway. Backing to South quickly at Stornoway later, but veering to the Northward at many of our southern stations.

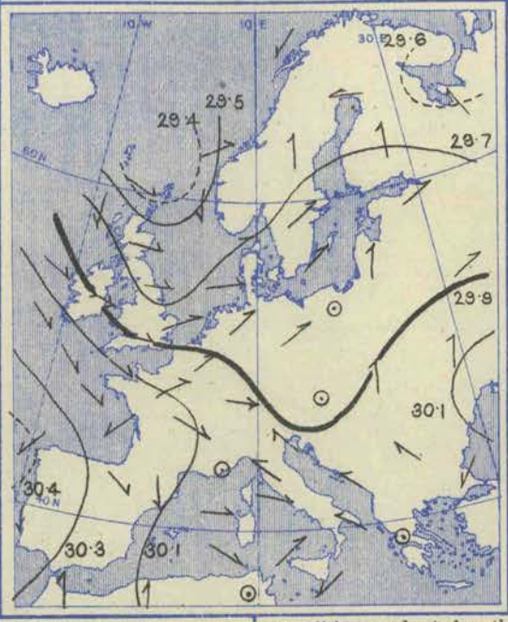
Barometer highest, (1) 30·2 ins. and more to 30·0 ins. over the south of Russia and south-eastern Europe generally; (2) 30·45 ins. in the Azores, and 30·1 ins. to 30·0 ins. over the south-western parts both of the Spanish Peninsula and Ireland. Lowest, (1) below 29·4 ins. in two depressions—one over the White Sea, the other over the southern half of Norway; (2) below 29·9 ins. over France and the western part of the Mediterranean, and still lower in a shallow depression approaching the south-west of France from the westward. Falling briskly at Stornoway later, rising over the Continent generally.

Saturday, 4th September.

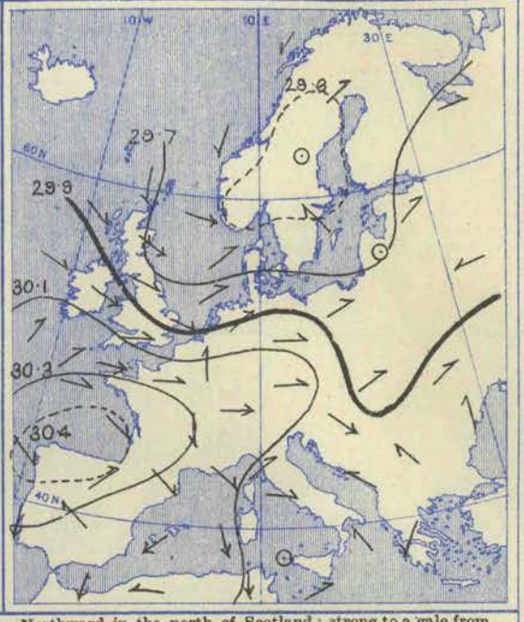
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning fine over the greater part of our Islands and the Continent, but rainy in the north-east of England, the north of Scotland and the west of Norway. Dull at many of the German, Baltic and northern Russian stations, with rain at Cuxhaven, Munich, Memel and Kuopio. Rain setting in later on our extreme western coasts and spreading quickly eastwards over nearly the whole Kingdom; considerable falls occurring at many of the Continental stations.

Temperature fallen in most countries, but risen in Austria, Italy and the central and southern parts of Russia. Morning readings highest 84° at Sfax, 81° at Algiers and Tunis, and 80° at Lesina, Brindisi and Athens; above 70° over southern Europe generally. Lowest (1) 44° at Shields, 45° at Nairn, Spurn Head and Donaghadee, and 46° at Aberdeen and Loughborough; (2) 49° at Bodö, Uleaborg, and Archangel. Daily maxima below 60° over our Islands as a whole, but thermometer rising slightly above that point at some of our extreme southern stations, and also at Leith. Exceeding 70° over southern Europe generally; reaching 90° or more over the central and southern parts of Italy, and touching 97° at Brindisi.

Wind light to moderate from the Northward in the north of Scotland; strong to a gale from the North-Westward over the Irish Sea and the north of Ireland; moderate from the South-Westward over the east of England, the Netherlands, Denmark, north Germany, and the south of Sweden; Easterly or North-Easterly in the extreme northern parts of Russia and Scandinavia. Light to moderate from the Northward over the Spanish Peninsula; variable in Italy. Subsequently backing to the South-Westward or Southward on our own extreme western and south-western coasts; Northerly and North-Westerly gales springing up in the north-east of Scotland.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over the north-western parts of the Spanish Peninsula; 30·1 ins. and more in another system over the south of Russia. Lowest, 29·4 ins. and less in a well-marked depression lying near the Shetlands; 29·6 ins. and less in a shallow system over the extreme north of Russia. Scotch depression subsequently moving eastwards, but new disturbance approaching the Irish coasts in evening.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

The weather over north-western Europe has remained in an exceedingly unsettled state, with heavy falls of rain in nearly all districts. At the commencement of the week, when pressure was high over the northern and central parts of Europe, a deep depression moved northwards along our extreme western coasts, and occasioned very strong winds or gales from South or South-West in the west and north of our Islands. Later on, however, the highest pressures were found over the southern parts of the Continent, and for the remainder of the time the weather in the north-western countries was affected by cyclonic systems which, in most instances, passed eastward along the north of Scotland, and thence on to Scandinavia and northern Russia. On September 1st an exception was supplied by a well-marked and rather deep disturbance, which advanced in a north-easterly direction across England, its passage being attended by heavy rain, and by strong South-Westerly to Westerly gales in the Channel. Over southern Europe the week was fair and very warm, the highest temperature being found as a rule over Italy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 206.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	18·5	−13·3	19	−12	EASTBOURNE	41·2	− 0·7	44	0
OSWALDKIRK (Yorkshire)	26·2	− 2·3	28	− 1	VENTNOR	42·4	?	46	?
WORKSOP	32·4	+ 1·9	34	+ 2	SOUTHPORT	34·4	?	36	?
THURCASTON (Leicestershire)					COLWYN BAY	30·6*	?	32*	?
MARGATE	44·1	+ 4·6	47	+ 6	NEWQUAY	40·2	− 2·8	43	− 1
WESTBOURNE (Sussex)	43·6*	+ 0·4	47*	+ 2	TORQUAY	*		*	
BRIGHTON	43·3	− 2·7	47	0	GUERNSEY	43·0*	− 9·9	46*	− 7

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

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VOL. XIV No. 36.] *Third Series.* WEEK ENDING SATURDAY, SEPTEMBER 11TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 212.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	68	30	56·4	39·5	47·6	5 below	50	−28	7	+ 7	1660	+168	622	− 1
	1. SCOTLAND, EAST -	66	29	57·9	38·7	47·8	6 below	54	−33	9	+ 9	1851	+ 26	670	+ 21
	2. ENGLAND, N.E. -	62	33	57·7	43·3	50·2	6 below	57	−44	0	0	2043	+108	471	− 78
	3. ENGLAND, EAST -	67	39	61·1	46·0	53·2	4 below	78	−34	0	0	2452	+201	493	−124
	4. MIDLAND COUNTIES	69	32	61·1	44·0	52·1	4 below	71	−39	0	0	2399	+147	504	−115
	5. ENGLAND, SOUTH -	69	40	62·1	48·8	55·1	4 below	92	−32	0	0	2681	+246	297	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	62	30	57·9	40·9	49·0	6 below	54	−38	3	+ 3	1990	+ 86	445	− 17
	7. ENGLAND, N.W. -	61	35	58·5	45·0	51·4	5 below	66	−41	0	0	2221	+154	367	− 92
	8. ENGLAND, S.W. -	67	33	59·9	47·7	53·5	4 below	81	−30	0	0	2527	+247	223	−138
	9. IRELAND, NORTH -	67	32	59·9	43·2	51·2	4 below	64	−34	0	0	2041	+ 20	403	+ 8
	10. IRELAND, SOUTH -	69	34	60·9	47·1	53·7	3 below	82	−26	0	0	2426*	+146	242	− 57
	—CHANNEL ISLANDS-	65	49	61·7	54·2	57·8	2 below	111	−15	0	0	2885	+333	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 212.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH -	4	3	7 less	155	− 8	26·7	− 4·1	43	+21	46	+23	1025	+160	30	+ 4
	1. SCOTLAND, EAST -	4	2	5 less	143	+10	21·1	+ 0·3	39	+ 9	43	+12	1105	+ 77	33	+ 3
	2. ENGLAND, N.E. -	3	4	2 less	130	+ 5	17·6	+ 0·6	26	− 6	28	− 6	1183	+159	35	+ 5
	3. ENGLAND, EAST -	4	8	2 more	127	+ 6	16·5	− 0·3	36	− 1	40	0	1309	+ 97	39	+ 2
	4. MIDLAND COUNTIES	3	5	1 less	128	+ 9	20·1	+ 1·7	33	− 1	36	0	1238	+142	37	+ 4
	5. ENGLAND, SOUTH -	4	8	3 more	119	+ 5	20·0	+ 1·8	29	−11	32	−11	1338	+ 67	40	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST -	2	4	6 less	154	+14	30·5	− 0·3	45	+ 9	49	+13	1143	+ 38	34	+ 2
	7. ENGLAND, N.W. -	2	3	5 less	144	+15	23·9	+ 2·2	39	+ 8	43	+11	1233	+108	36	+ 3
	8. ENGLAND, S.W. -	4	16	8 more	151	+22	31·2	+ 7·0	35	− 5	39	− 3	1333	+ 17	40	0
	9. IRELAND, NORTH -	3	3	5 less	165	+12	29·3	+ 5·0	54	+27	59	+30	1049	+ 51	31	+ 1
	10. IRELAND, SOUTH -	4	9	2 more	159	+21	31·7*	+ 6·1	41	+ 9	43	+ 9	1095	− 32	33	− 1
	— CHANNEL ISLANDS-	5	16	10 more	160	+24	25·6	+ 5·8	31	−20	35	−16	1384	−117	43	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather continued very unsettled and rainy during the earlier days of the week, but subsequently became fine and dry in all parts of the Kingdom.

Temperature was again below the mean, the deficit being as much as 4° or 5° in most parts of the country, and 6° in England N.E. and Scotland E. and W. The highest of the maxima were recorded, as a rule, on the 11th, and varied from 69° in the Midland counties, England S., and Ireland S. to 61° in England N.W. The lowest of the minima, which were registered towards the end of the week, ranged from 29° in Scotland E., 30° in Scotland N. and W., and 32° in the Midland counties and Ireland N. to 40° in England S. and to 49° in the Channel Islands.

Rainfall exceeded the mean in England E., S., and S.W., as well as in Ireland S. and the Channel Islands. In other districts, however, there was a deficit. The fall in England S.W. and the Channel Islands was again very heavy.

Bright Sunshine exceeded the normal in Ireland, Scotland, and the north-west of England, but was deficient in most other parts of the Kingdom. The percentage of the possible duration ranged from 59 in Ireland N., 49 in Scotland W., and 46 in Scotland N. to 32 in England S., and 28 in England N.E.

Barometer and Wind.—During the earlier half of the period depressions (secondary to larger systems travelling from the Atlantic across Scandinavia) passed eastwards over the United Kingdom. The wind was consequently from between South-West and West or North-West, and at first blew strongly in the south, reaching the force of a gale at some of the Channel stations. About the middle of the week a shallow depression appeared over our south-west coasts ; this system, however, passed away southwards over France, and an anticyclone, which subsequently embraced the whole of our Islands and their neighbourhood, began to form in the north. With this change of pressure distribution the wind became light from between North and East, but toward the end of the week it shifted to the Southward in the extreme west and north-west.

*This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 211 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	58	38	53·1	42·7	47·7	− 3·4	40	0	3	0·05	− 0·75	*	*	*	*
	Stornoway	59	39	56·0	40·9	48·1	− 3·7	47	3	4	0·54	− 0·38	47·6	+21·8	51	+24
	Wick	67	35	56·4	40·9	48·3	− 4·3	49	3	4	0·22	− 0·38	*	*	*	*
	Lairg $	68	30	57·8	36·5	46·7	− 5·9	56	15	4	0·26	− 0·37	*	*	*	*
	Glencarron $	59	34	55·6	38·1	46·4	− 5·9	47	11	4	0·64	− 0·96	*	*	*	*
	Fort Augustus $	63	30	58·7	37·2	47·5	− 6·9	59	13	3	0·22	− 0·63	33·7	+16·1	37	+18
	Fort William $	60	34	57·2	40·2	48·3	− 6·5	52	5	3	0·33	− 1·19	47·1	+25·9	51	+29
1. SCOTLAND, E.	Nairn	65	35	58·0	38·0	47·5	− 6·4	55	11	5	0·34	− 0·20	*	*	*	*
	Aberdeen	62	37	55·4	40·1	47·4	− 6·4	46	5	4	0·24	− 0·38	38·5	+ 6·3	42	+ 8
	Braemar $	61	29	54·4	34·6	44·0	− 6·6	45	21	4	0·13	− 0·75	41·7†	+15·9†	45†	+17†
	Ochtertyre $	64	34	62·4	37·9	49·6	− 4·5	70	11	2	0·12	− 0·62	*	*	*	*
	Leith	66	39	61·0	42·0	51·0	− 4·6	63	0	3	0·17	− 0·33	*	*	*	*
	Marchmont $	60	36	56·0	39·6	47·4	− 6·0	48	7	3	0·11	− 0·30	37·5	+ 6·2	41	+ 9
2. ENGLAND, N.E.	Alnwick Castle	61	35	56·5	40·6	48·2	− 5·7	49	4	6	0·52	− 0·09	*	*	*	*
	Durham	62	33	57·7	40·2	48·6	− 6·5	54	5	3	0·19	− 0·32	19·2	−10·8	21	−11
	Shields	62	41	56·3	43·0	49·3	− 6·0	51	0	4	0·33	− 0·21	*	*	*	*
	Scarborough ℳ	62	40	58·2	44·1	50·8	− 5·2	62	0	2	0·40	− 0·16	33·1	?	36	?
	York	62	36	59·3	42·7	50·6	− 5·8	60	0	2	0·23	− 0·32	27·5	− 1·9	30	− 2
	Spurn Head	61	45	58·3	49·3	53·6	− 3·7	81	0	3	0 50	+ 0·10	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	63	43	61·0	45·3	52·8	− 4·3	76	0	4	1·08	+ 0·51	42·3	+ 7·3	46	+ 8
	Yarmouth	62	44	59·6	48·7	53·9	− 3·9	83	0	5	0·89	+ 0·33	*	*	*	*
	Geldeston	65	44	61·0	46·4	53·4	− 4·2	80	0	5	0·99	+ 0·49	35·6	− 3·5	39	− 3
	Cambridge	67	39	63·1	44·1	53·1	− 4·9	78	0	3	0·39	− 0·09	35·8	− 1·7	39	− 1
	Rothamsted	64	39	60·6	45·6	52·7	− 3·9	75	0	4	0·47	− 0·08	31·7	− 5·4	35	− 5
4. MIDLAND COUNTIES	Harrogate															
	Bawtry (Hesley Hall)	68	36	61·3	42·4	51·4	− 5·0	66	0	2	0·14	− 0·35	*	*	*	*
	Loughborough	66	36	61·9	43·6	52·3	− 5·3	72	0	3	0·86	+ 0·31	*	*	*	*
	Stamford (Duddington)	64	38	62·1	45·0	53·1	− 4·5	78	0	4	0·89	+ 0·32	*	*	*	*
	Cheadle ℳ	61	39	58·4	43·9	50·8	− 3·8	62	0	2	0·64	− 0·12	*	*	*	*
	Shirley (near Solihull)	64	37	60·9	43·4	51·7	− 5·0	68	0	3	0·45	?	*	*	*	*
	Churchstoke ℳ	64	32	59·5	41·3	50·0	− 4·9	59	2	4	0·34	− 0·26	37·1	+ 2·2	41	+ 4
	Hereford ℳ	68	34	62·4	44·5	53·0	− 4·1	77	0	3	0·38	− 0·17	*	*	*	*
	Cirencester	69	40	61·9	45·3	53·2	− 2·4	78	0	2	0·67	+ 0·03	35·8	− 0·5	39	0
	Oxford	65	38	61·7	46·3	53·6	− 4·0	81	0	3	0·42	− 0·10	34·1	− 3·9	37	− 3
5. ENGLAND, S.	London	68	43	63·3	47·7	55·1	− 4·2	92	0	4	0·72	+ 0·22	23·6†	−10·4†	26†	−10†
	North Foreland	66	46	60·9	51·4	55·9	− 2·7	97	0	6	0·73	?	*	*	*	*
	Dungeness	64	46	61·9	50·1	55·7	− 3·8	96	0	5	0·56	+ 0·06	*	*	*	*
	Hastings (St. Leonards)	66	43	61·3	47·6	54·1	− 4·9	85	0	3	1·08	+ 0·55	27·7	−14·3	31	−14
	Southampton	69	41	64·3	47·9	55·7	− 3·5	96	0	2	0·63	+ 0·03	36·4	− 6·6	40	− 5
	Hurst Castle	68	42	63·1	50·4	56·5	− 3·1	102	0	4	0·76	+ 0·18	*	*	*	*
	Shaftesbury ℳ	63	40	59·6	46·2	52·6	− 4·5	74	0	3	1·26	+ 0 56	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	34	58·0	39·7	48·4	− 6·1	54	6	2	0·29	− 1·11	*	*	*	*
	Glasgow	59	39	56·1	42·4	48·9	− 5·1	48	0	2	0·24	− 0·65	30·2	+ 2·5	33	+ 5
	Ardrossan	60	38	58·0	43·0	50·1	− 5·4	57	0	2	0·42	− 0·41	*	*	*	*
	Glenlee $	61	30	59·1	36·4	47·2	− 6·7	60	16	3	0·75	− 0·31	*	*	*	*
	Gilcrux	59	31	57·7	40·7	48·8	− 5·4	53	4	3	0·63	?	51·1	?	56	?
	Douglas (Isle of Man)	60	38	58·7	42·9	50·4	− 4·4	59	0	2	0·14	− 0·73	52·4	+17·1	58	+21
7. ENGLAND, N.W.	Stonyhurst	58	35	57·5	42·6	49·7	− 5·6	54	0	2	0·19	− 0·96	38·3	+ 7·3	42	+ 9
	Blackpool ℳ	61	35	60·2	42·3	50·8	− 5·8	62	0	2	0·27	− 0·51	41·4	+ 9·5	46	+13
	Manchester (Prestwich)	60	36	57·3	43·0	49·8	− 6·0	55	0	2	0·42	− 0·43	27·2	?	30	?
	Liverpool Obsy. (Bidston)	60	42	58·4	46·4	52·1	− 5·1	71	0	2	0·52	− 0·15	*	*	*	*
	Llandudno ℳ	61	39	58·3	47·5	52·6	− 5·3	74	0	4	0·36	− 0·28	*	*	*	*
	Holyhead	61	43	59·0	47·9	53·2	− 4·2	78	0	2	0·15	− 0·57	*	*	*	*
8. ENGLAND, S.W.	Llandovery	67	33	62·4	43·4	52·4	− 5·3	73	0	4	1·35	+ 0·35	*	*	*	*
	Pembroke	61	45	58·4	51·1	54·6	− 2·9	88	0	3	0·78	+ 0·09	41·3	+ 1·4	45	+ 4
	Clifton	62	41	60·0	48·1	53·8	− 3·4	83	0	2	1·49	+ 0·77	*	*	*	*
	Arlington (N. Devon)	62	38	58·9	45·6	51·9	− 4·4	69	0	4	2·88	+ 1·81	*	*	*	*
	Cullompton ℳ	64	37	60·9	45·5	52·8	− 4·9	76	0	3	1·76	+ 1·11	34·2	− 3·8	38	− 2
	Falmouth	61	47	59·5	50·2	54·6	− 3·3	88	0	4	1·85	+ 0·95	34·3	− 7·7	38	− 6
	Plymouth	64	44	60·3	48·5	54·1	− 4·7	85	0	4	1·04	+ 0·34	33·3	− 6·6	37	− 5
	Prawle Point	62	42	58·6	49·0	53·6	− 4·3	81	0	4	1·21	+ 0·71	*	*	*	*
9. IRELAND, N.	Malin Head	62	44	57·9	47·1	52·2	− 3·6	71	0	3	0·36	?	*	*	*	*
	Londonderry	67	38	62·4	42·9	52·2	− 3·2	71	0	2	0·21	− 0·62	*	*	*	*
	Edenfel (Omagh)	64	35	60·0	41·6	50·4	− 3·2	60	1	2	0·48	− 0·30	*	*	*	*
	Belmullet	63	46	59·4	47·7	53·3	− 3·2	79	0	5	0·50	− 0·45	*	*	*	*
	Markree Castle	63	32	60·3	41·8	50·6	− 3·7	61	1	3	0·28	− 0·60	51·1	+24·2	56	+28
	Armagh	62	34	60·7	39·5	49·6	− 5·0	64	7	2	0·19	− 0·46	56·4	+29·8	62	+33
	Donaghadee	63	38	58·7	42·9	50·4	− 4·9	59	0	2	0·08	− 0·58	*	*	*	*
	Edgeworthstown	63	36	59·9	42·4	50·7	− 3·7	61	0	3	0·31	− 0·35	*	*	*	*
10. IRELAND, S.	Dublin	63	41	59·6	47·4	53·2	− 3·4	78	0	4	0·37	− 0·13	45·0	+10 9	49	+13
	Parsonstown	64	34	60·4	43·4	51·5	− 3 9	67	0	3	0·61	− 0·05	40·5	+12·3	45	+14
	Kilkenny	63	35	60·7	45·0	52·5	− 4·2	74	0	4	0·88	+ 0·12	*	*	*	*
	Roche's Point	63	44	61·3	49·6	55·2	− 1·9	92	0	3	0·91	+ 0·03	*	*	*	*
	Valencia	65	41	61·3	49·6	55·2	− 2·3	92	0	3	1·15	+ 0·05	38·2	+ 5·4	42	+ 7
	Killarney	64	40	62·1	48·9	55·2	− 1·9	92	0	4	1·14	?	*	*	*	*
	Foynes	69	41	60·6	46·0	53·0	− 3·5	77	0	4	1·44	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	49	60·4	53·0	56·5	− 2·2	102	0	4	1·47	+ 0·82	30·0	?	33	?
	Jersey	65	53	62·9	55·4	59·0	− 2·0	119	0	5	1·77	+ 1·19	33·9	−17·3	38	−15

Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked $ with the Scottish Meteorological Society.

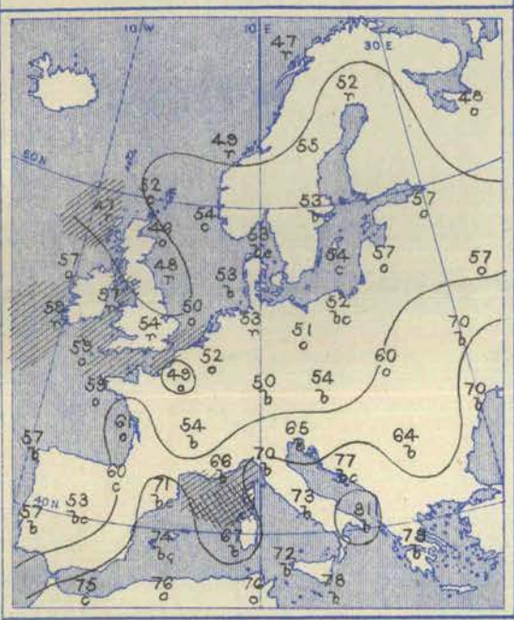
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 5th September.

Temperature and Weather.

8 a.m.

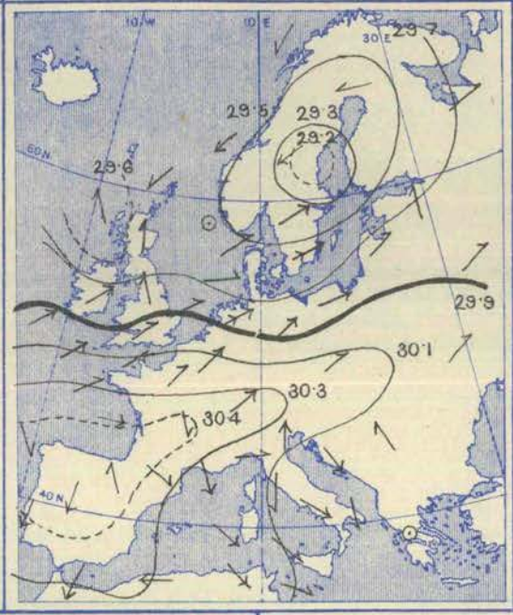


Weather in morning rainy over Ireland, England, and the west and south of Scotland, as well as in the northern parts of Scandinavia. Fine in most other parts of Europe, but dull in the east of Scotland, and also in the northern parts of Germany and Russia, with rain at Cuxhaven and Helsingfors. Heavy rain falling during day in many parts of north-western, northern, and central Europe—as much as 1·2 ins. at Cuxhaven, and 1·1 ins. at Utrecht and Cape Gris Nez.

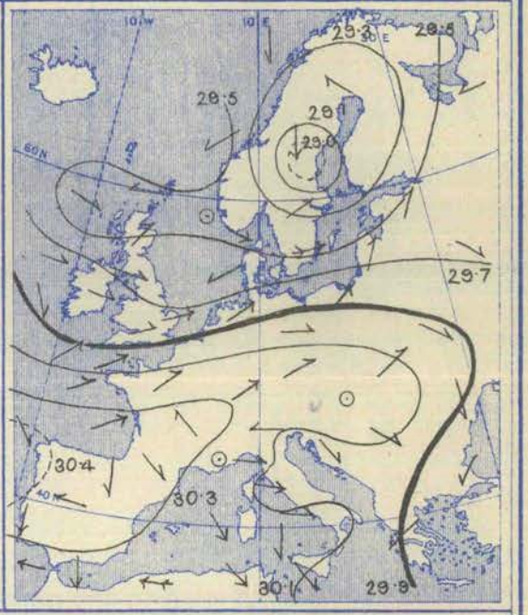
Temperature risen over Ireland, England, the Spanish Peninsula, and the west and north of France, but fallen in most other localities. Morning readings highest, 81° at Brindisi, 79° at Athens, 78° at Malta, and 77° at Lesina; above 65° in most parts of southern Europe. Lowest, (1) 46° at Nairn and Aberdeen, and 47° at Stornoway and Leith; (2) 47° at Bodö, and 48° at Archangel; below 50° over the northern parts of Great Britain generally. Daily maxima below 60° on our own northern coasts, and very little above it even at our central and southern stations. Thermometer exceeding 75° in the south of France, and exceeding 80° over Spain and Italy, the highest reading of all being 97° at Cagliari.

Barometer and Wind.

8 a.m.



6 p.m.



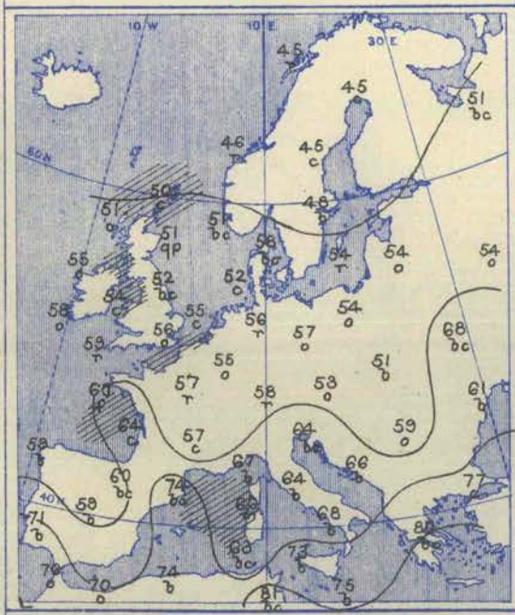
Wind strong from the Westward or South-Westward over the western and southern parts of our Islands, and also over the Netherlands, Germany, the Baltic, and the south of Sweden, with gales in places; light to moderate from the Southward or South-Eastward on the north and north-east coasts of Great Britain. Moderate to strong from the North-Eastward over the northern parts of Scandinavia. North-Westerly in Italy and the south of France; Northerly or North-Easterly over the Spanish Peninsula. Subsequently veering to the North-Westward in Scotland; strong gale from West and South-West springing up over eastern part of English Channel.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over the Spanish Peninsula and the south-west of France. Lowest, 29·2 ins. and less in a well-marked depression over the southern part of the Gulf of Bothnia; 29·6 ins. and less in another disturbance with its centre off the west of Scotland. Former depression remaining stationary during day; latter disturbance moving north-eastwards across Scotland; small secondary system passing eastwards over Ireland, England, and the North Sea.

Monday, 6th September.

Temperature and Weather.

8 a.m.

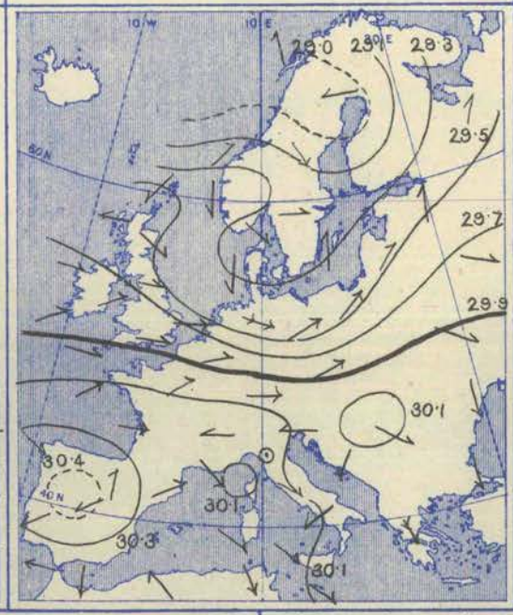


Weather in morning cloudy or dull over our Islands and the northern and central parts of the Continent as a whole, with rain over the western parts of the English Channel, as well as over the north of France and the greater part of Germany. Rain falling also in the north-east of Scotland and the west of Norway. Fine over the northern parts of Ireland and England, and also over southern Europe generally. Rain falling later in many parts of western, northern and central Europe—heavily in places. Thunderstorms occurring on the east coasts of England.

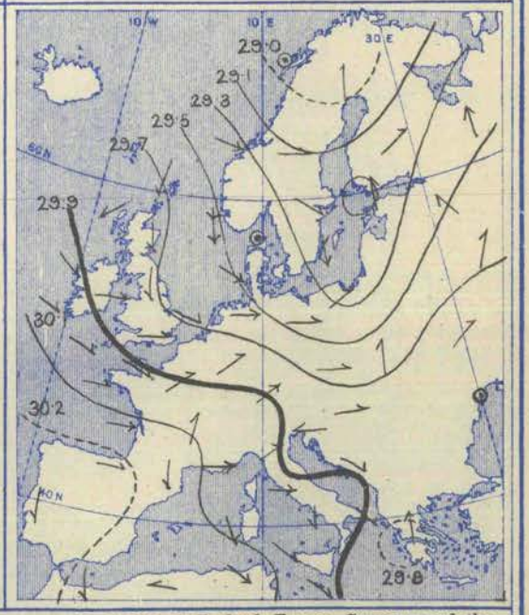
Temperature risen in most of the western and northern countries, but fallen in Italy, Austria, and Russia. Morning readings highest, 81° at Sfax, 80° at Athens, 77° at Constantinople, and 76° at San Fernandö; above 65° in many parts of southern Europe. Lowest, 45° at Haparanda, Hernösand and Bodö, and 46° at Christiansund and Karlstadt. Rising during day to between 60° and 65° in many parts of our Islands and to 66° at Leith, the North Foreland and in London; exceeding 80° in many parts of southern Europe, and reaching 88° at Lisbon.

Barometer and Wind.

8 a.m.



6 p.m.



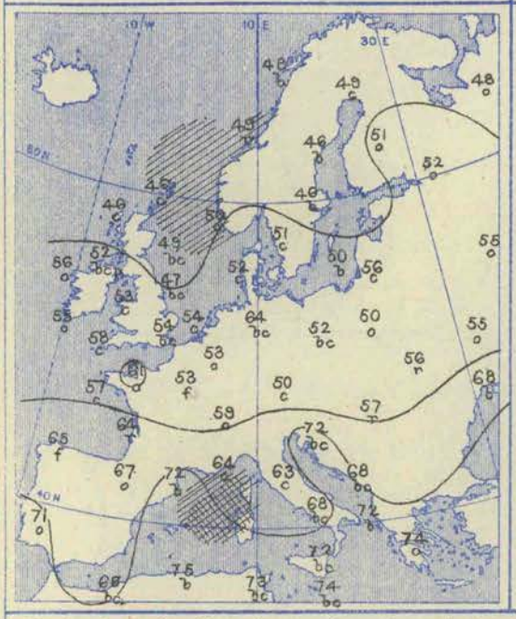
Wind Westerly over the greater part of Ireland, England, France, Germany, and the Netherlands; strong in force in places, with a gale at Cuxhaven; Easterly or North Easterly in the extreme north of Scotland; Southerly over the Baltic and the northern parts of Russia; Northerly or North-Easterly in the south of Norway. Northerly or North-Westerly over the central and southern parts of Russia; calm or variable in Italy and Austria; North-Easterly over the Spanish Peninsula. Subsequently veering to the North-Westward in many parts of Ireland and England, but moderating considerably in strength.

Barometer highest, 30·3 ins. to 30·4 ins. over the Spanish Peninsula, 30·1 ins. and upwards in an anticyclone embracing a considerable portion of southern Europe. Lowest, 29·0 ins. and less in a complex depression over the northern parts of Scandinavia, 29·3 ins. and less in two secondary systems—one lying over the south of Sweden and the north of Denmark and the other over north Germany. Further secondary disturbances appearing later over our Islands and the North Sea, but barometer rising in the west and north generally.

Tuesday, 7th September.

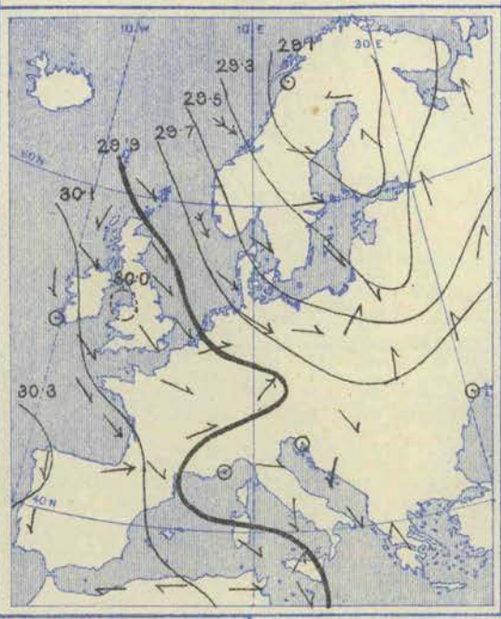
Temperature and Weather.

8 a.m.

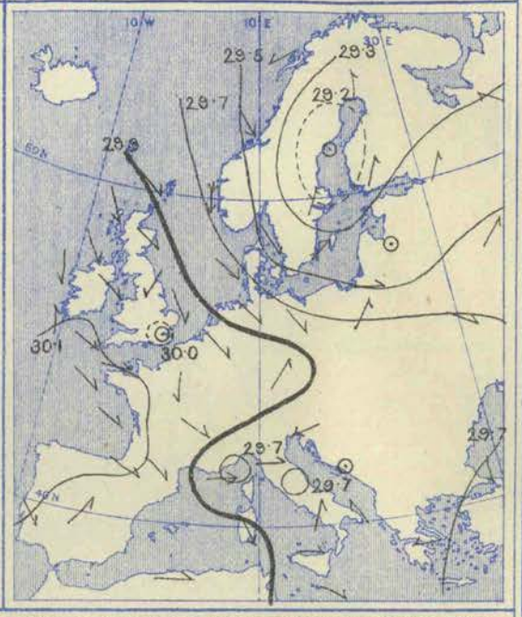


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the greater part of western, northern, and southern Europe, but dull at several of our own western and central stations, as well as in the south-west of France, with rain at Rochefort. Dull also in the west and south of Norway, and in Russia, Austria, and eastern Germany, with rain in several places. Showers falling later at most stations in the north and east of our Islands; heavy rain setting in at night in the south of Ireland.

Temperature fallen in most places. Morning readings highest, 76° at Oran, 75° at Algiers, and 74° at Cagliari, Patras, and Malta; above 70° in many parts of southern Europe. Lowest, 46° at Hernösand, Stockholm, Karlstad, Sumburgh Head, and Stornoway, and 47° at Nairn and Shields; below 50° at several of our northern stations. Remaining below 55° all day on our extreme north and north-west coasts, but exceeding 60° at several of our central and southern stations, and reaching 67° at Hurst Castle. Exceeding 80° in many parts of southern Europe, the highest readings of all being 93° at Madrid and 90° at Palermo.

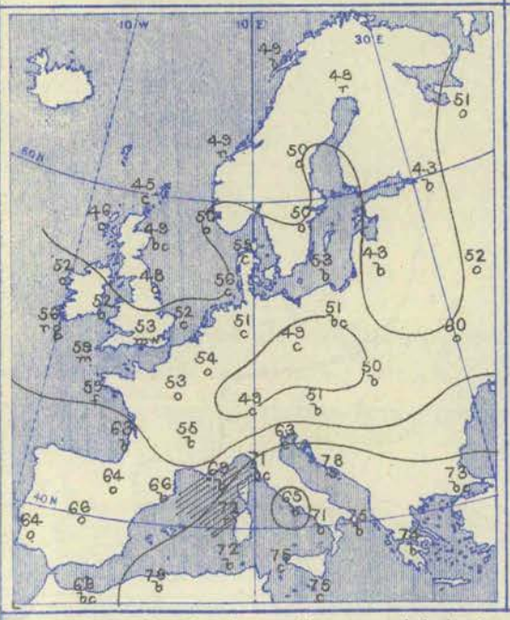
Wind North-Westerly over the greater part of western, northern, and southern Europe; light or moderate in force generally, but blowing a strong gale on the west coast of Norway. Light to fresh from the Westward or South-Westward over Germany and Austria; light from the Southward over the greater part of Russia. Subsequently backing to the Westward in many parts of England, and to the South-Westward or Southward in the south of Ireland. No important change occurring elsewhere, but gale from South-Westward springing up at Wisby.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying off the Portuguese coasts. Lowest, 29·1 ins. and less in a large depression lying over Finland and the northern parts of Scandinavia; 29·8 ins. and less in another disturbance over the Gulf of Genoa, 30·0 ins. and less in a very shallow system over North Wales. Northern depression subsequently moving eastwards, but new disturbance approaching the Irish coasts in evening.

Wednesday, 8th September.

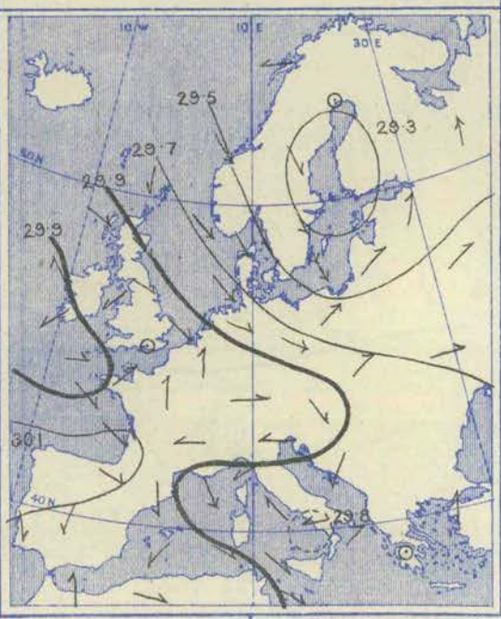
Temperature and Weather.

8 a.m.

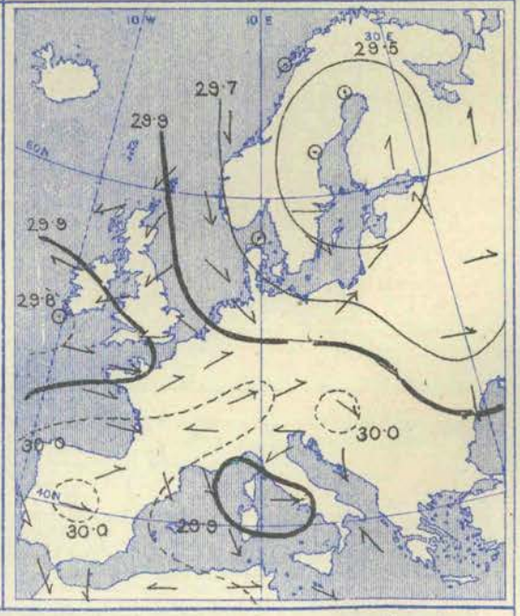


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over Europe as a whole, but foggy or misty in several parts of our Islands and France, and rainy in the south of Ireland and the south-west of England. Dull over the northern parts of Russia and Scandinavia, with rain at Haparanda and Christiansund. Rain falling later over the southern parts of our Islands generally, as well as at many of the Continental stations; showers experienced also on the north-east coasts of Great Britain.

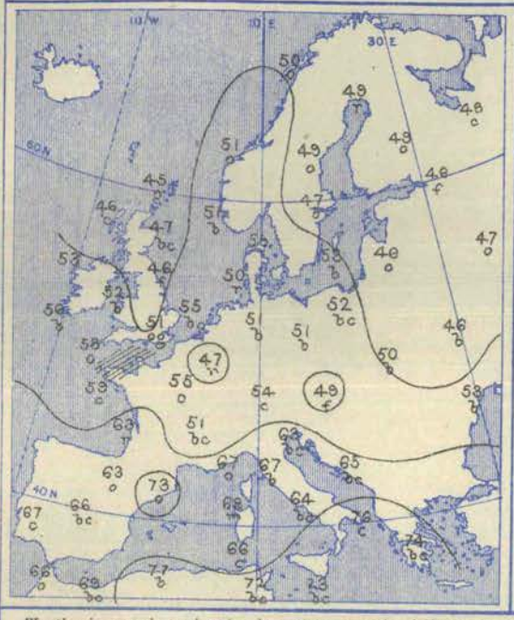
Temperature fallen generally, but risen in Scandinavia, and also over southern Italy. Morning readings highest, 80° at Palma, 78° at Lesina and Algiers, and 75° at Brindisi, Palermo, and Malta; above 65° in many parts of southern Europe. Lowest, (1) 43° at Riga and St. Petersburg, and 48° at Haparanda; (2) 45° at Sumburgh Head and Nairn, and 46° at Stornoway; below 50° over the northern and central parts of Great Britain generally. Daily maxima below 60° in all but the central and southern parts of our Islands, and very little above it even in the extreme south. Thermometer exceeding 80° in many parts of southern Europe, and reaching 91° at Madrid.

Wind light to moderate from the Eastward or South-Eastward on most parts of our western coasts, but Westerly in the English Channel, and North-Westerly in the west of France; variable over eastern and central England. North-Westerly in the north of Scotland, and also in Scandinavia and Denmark; strong to a gale on the eastern shores of the North Sea, as well as at Wisby. Westerly in Germany and Austria; Southerly over the northern parts of Russia. Variable in Italy; Northerly over the Spanish Peninsula. Subsequently shifting to the Eastward or North-Eastward in nearly all parts of our Islands; gales on eastern shores of the North Sea moderating gradually.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over the Bay of Biscay and the neighbouring parts of France and Spain. Lowest, 29·3 ins. and less in a depression over Finland and the Gulf of Bothnia; 29·9 ins. and less in a shallow disturbance over the south-western parts of the United Kingdom. Latter system subsequently spreading eastwards, but centre finally moving away in a south-easterly direction towards France.

Thursday, 9th September.

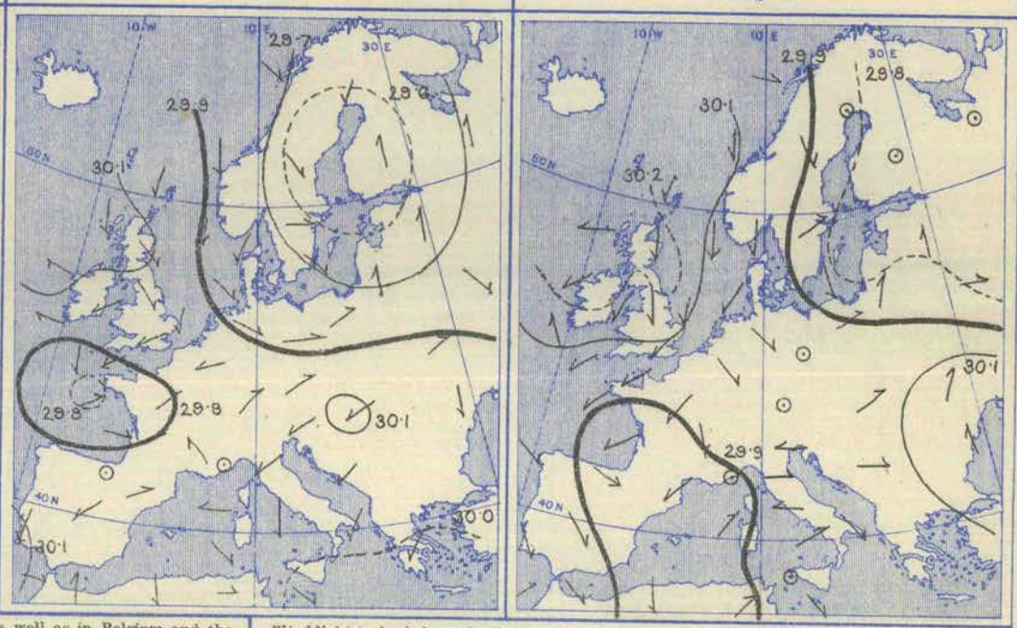
Temperature and Weather. 8 a.m.



Weather in morning rainy in the extreme south of England, as well as in Belgium and the southern parts of Germany; dull in France. Fine in nearly all other parts of Europe, but dull over the northern parts of Russia and Scandinavia, with rain at Haparanda. Weather improving later in the south of England, but showers falling on the east and south-east coasts of Great Britain. Heavy rain occurring over the southern parts of France, with thunderstorms in places—as much as 1·6 ins. at Biarritz and 2·1 ins. at Limoges.

Temperature fallen in Russia and Italy, changed little and irregularly elsewhere. Morning readings highest, 77° at Algiers, 76° at Brindisi, and 74° at Athens; above 65° in most parts of southern Europe. Lowest, (1) 45° at Sumburgh Head and Nairn, and 46° at Stornoway, Shields, and York; (2) 45° at Munster, and 46° at Karlstad, St. Petersburg, Riga, Warsaw, and Kiev. Daily maxima below 55° on several parts of our own northern coasts, and very little above 60° even in the central and southern districts; thermometer exceeding 70° in the south of France, and exceeding 80° in Spain and Italy, the highest reading of all being 89° at Madrid.

Barometer and Wind. 8 a.m. 6 p.m.

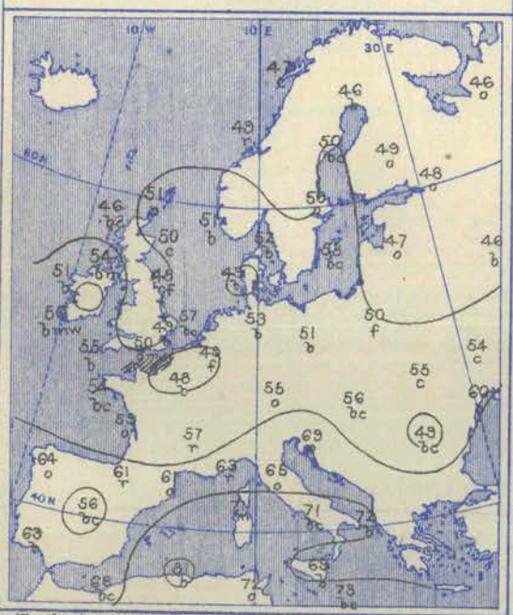


Wind light to fresh from the Eastward or North-Eastward in the west and south of our Islands, but South-Westerly over the northern parts of France. Northerly or North-Westerly on the north-east coasts of Great Britain, as well as in Scandinavia and Denmark, and fresh in force in the west of Norway; light from the Westward or South-Westward in Germany, and from the Southward over the northern parts of Russia. Calm or variable over southern Europe as a whole, but North-Easterly over the Spanish Peninsula. Subsequently shifting to the North-Eastward over the northern parts of France; no important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards in an anticyclone lying over Scotland and the extreme north-west of Ireland, and also in another system off the Portuguese coasts. Lowest, 29·6 ins. and less in a large depression over Finland and the Gulf of Bothnia; 29·8 ins. and less in a smaller disturbance lying at the mouth of the English Channel. Anticyclone over Scotland subsequently spreading southwards; Channel depression moving south-eastwards over France.

Friday, 10th September.

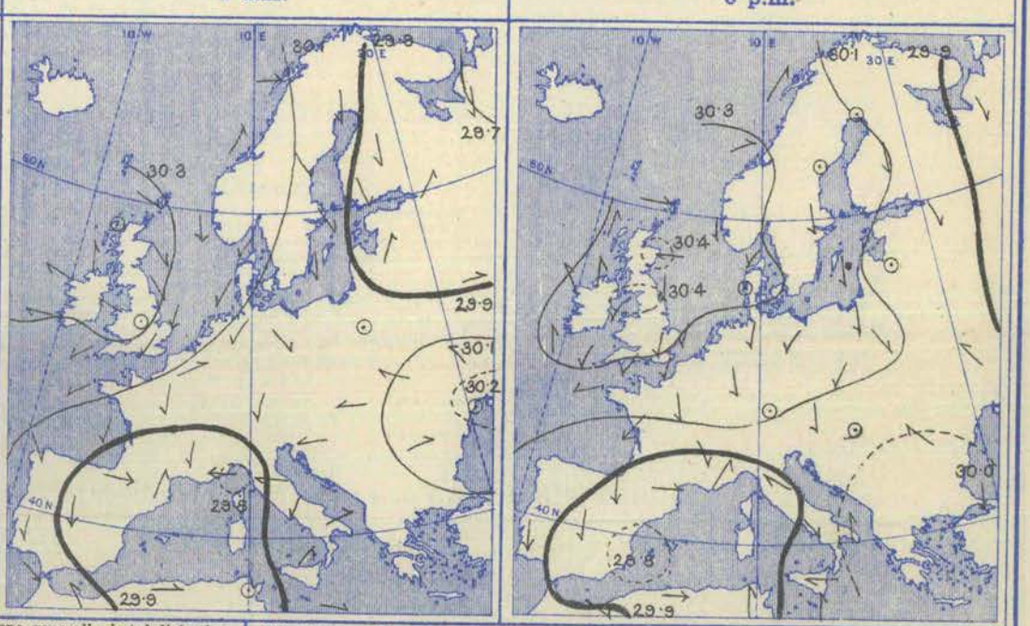
Temperature and Weather. 8 a.m.



Weather in morning fine over western, northern, and central Europe generally, but dull in the north-east of England, with fog at Shields. Dull over northern Italy, and the southern parts of France and Germany, with rain in several places. Showers falling later on the extreme south-east coasts of England, but weather remaining fine and dry over our Islands generally. Rain continuing over the southern parts of France and Germany, and extending to the neighbouring portions of Spain, Italy, and Austria—amounts as large as 2·8 ins. at Florence, and 1·7 ins. at Leghorn.

Temperature fallen in most parts of western and southern Europe, risen in Sweden and Austria; changed irregularly elsewhere. Morning readings highest, 82° at Sfax and 81° at Algiers, 77° at La Calle and 74° at Oran; above 65° in many parts of southern Europe. Lowest, (1) 42° at Parsonstown, 44° at Loughborough, and 47° at Liverpool; (2) 46° at Haparanda, Archangel, and Moscow. Daily maxima below 55° on the north-east coasts of Great Britain, but thermometer exceeding 60° over England and Ireland generally, and reaching 65° in London. Rising to 75° and upwards in most parts of southern Europe, and reaching 96° at Palermo.

Barometer and Wind. 8 a.m. 6 p.m.

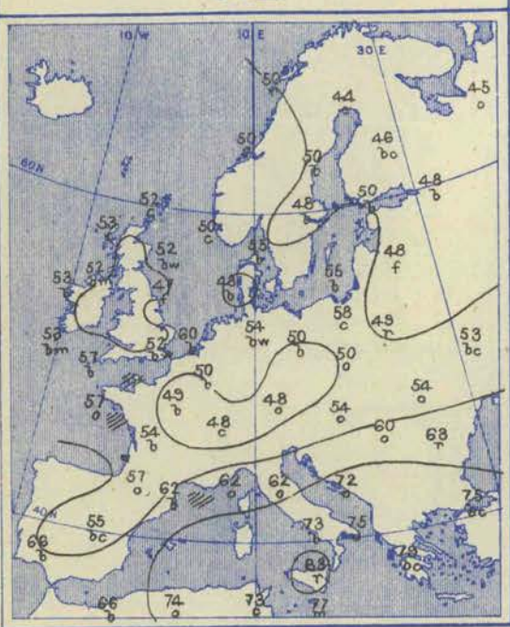


Wind light to fresh from the Northward on the east coasts of Great Britain, as well as in Sweden, Denmark, Germany, and the south of Norway, but Westerly or South-Westerly in the west of Norway. Easterly or North-Easterly in the west and south of our Islands and the northern parts of France, and fresh in force at several of the English Channel stations; Westerly at Biarritz and Perpignan. Northerly or North-Westerly over the Spanish Peninsula, variable in Italy, Easterly or North-Easterly in Austria. Light Southerly breezes setting in later on our own extreme western coasts; no important change occurring elsewhere.

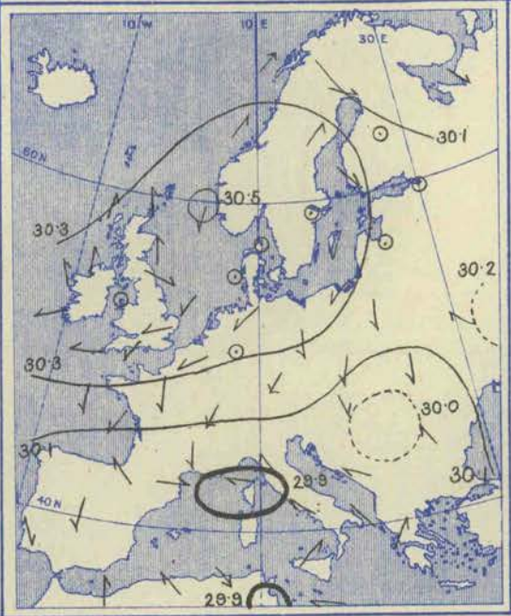
Barometer highest, 30·3 ins. and upwards in an anticyclone lying over Ireland and all the more northern parts of Great Britain; 30·2 ins. and upwards in another system over the south of Russia. Lowest 29·8 ins. and less in a large shallow depression over northern Russia; 29·9 ins. and less in another system over Spain, the south of France, and the western parts of the Mediterranean. Western anticyclone increasing later both in size and height, but barometer beginning to fall slightly on our extreme western coasts.

Saturday, 11th September.

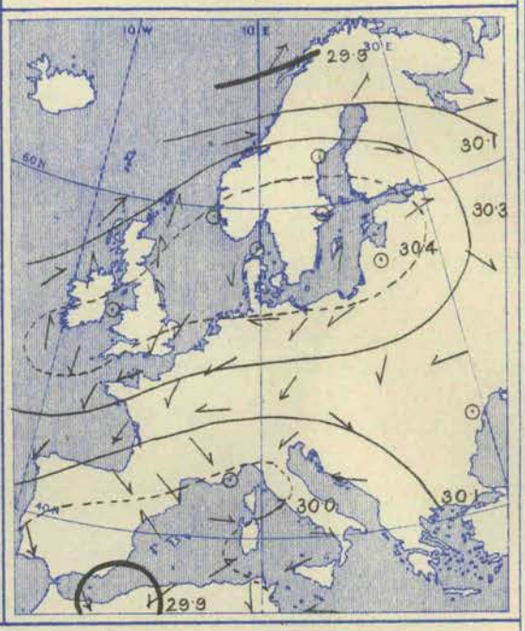
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over western and northern Europe generally, but dull in the north-east of England, with fog at Shields; dull also in the west of Norway, with rain at Bodö. Cloudy over Austria, south Germany, and northern Italy, with rain in several places, and a thunderstorm at Leghorn; fine over central Italy and the Spanish Peninsula. Slight rain falling later in the extreme north and north-west of our Islands, and larger quantities in several parts of southern Europe—as much as 1·3 ins. at Trieste and 1·1 ins. at Gap.

Temperature risen a little in most places. Morning readings highest, 83° at Palermo, 81° at Sfax, 79° at Patras, and 77° at Malta; above 70° at most of the Mediterranean and Adriatic stations. Lowest, (1) 44° at Haparanda and Karlstad, and 45° at Archangel; (2) 45° at Leith, and 46° at Loughborough and Parsonstown (below 50° over the central parts of our Islands generally). Rising during day to 65° and upwards in many parts of Great Britain, and to 68° in London; exceeding 70° in Spain and the south of France, and exceeding 80° over central and southern Italy, the highest reading of all being 84° at Malta.

Wind light to fresh from the North-Eastward over the southern parts of the United Kingdom, and also over France, Germany, and the Netherlands. Southerly in the extreme north and north-west of our Islands, and South-Westerly over the northern parts of Scandinavia. Calm or light from the Northward over Finland, Denmark, and the Baltic. South-Easterly in Italy, but chiefly North-Westerly over the Spanish Peninsula. No important change occurring over western Europe during day.

Barometer highest, 30·50 ins. at Skudesnaes; 30·2 ins. and upwards in an anticyclone covering nearly the whole of northern and north-western Europe. Lowest, 29·9 ins. and less in two depressions—one lying off the south of France, and the other over Tunis; 30·0 ins. and less in another shallow system over eastern Austria. No important change occurring later, but barometer beginning to fall somewhat over the northern parts of our Islands. Depressions over southern Europe and the Mediterranean gradually filling up.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of last week the weather over the whole of north-western and northern Europe was influenced by cyclonic systems which travelled in an easterly direction, the main disturbances advancing over Scandinavia, while their secondaries passed across our Islands and the North Sea. The prevailing winds were consequently Westerly (South-West to North-West) and strong in force, with Westerly gales in the English Channel on the 5th, and with North-Westerly to Northerly gales on the Scandinavian coast on the 6th and 7th. Later on the depressions passed away to the eastward, but on the 8th a new disturbance appeared off our south-west coasts, and spread gradually over the south of our Islands and the north of France, considerable quantities of rain being again experienced in those districts on that day or early on the 9th.

An anticyclone was, however, in the meantime forming over the northern parts of our Islands, the system afterwards increasing considerably both in size and height, and finally embracing nearly the whole of western Europe. As the anticyclone spread southwards the depression over our south-western districts moved in a south-south-easterly direction over the west of France, and afterwards across the western parts of the Mediterranean, its progress being attended by heavy falls of rain in several parts of southern Europe, with thunderstorms in some localities. In our Islands and all the neighbouring countries the weather gradually became fair and dry, the wind being North-Easterly in the more southern, but Southerly or South-Westerly in the extreme western and northern districts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 212.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	39·2	+ 9·4	43	+13	EASTBOURNE	28·0	-12·3	31	-12
OSWALDKIRK (Yorkshire)	23·1	- 4·5	25	- 4	VENTNOR	32·5	?	36	?
WORKSOP	24·9	- 4·5	27	- 5	SOUTHPORT	44 0	?	48	?
THURCASTON (Leicestershire)	33·2	+ 0·6	36	+ 2	COLWYN BAY	43·4	?	48	?
MARGATE	27·3	-10·5	30	-10	NEWQUAY				
WESTBOURNE (Sussex)	29·7*	-11·7	33*	-11	TORQUAY	33·6*	- 8·4	37*	- 8
BRIGHTON	26·9	-17·2	30	-16	GUERNSEY	29·6*	-20·4	33*	-18

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV No. 37.] *Third Series.* WEEK ENDING SATURDAY, SEPTEMBER 18TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 218.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	37	57·7	47·4	52·3	1 above	72	− 1	0	− 1	1732	+167	622	− 2
	1. SCOTLAND, EAST	78	36	62·1	45·9	53·6	1 above	81	− 5	0	− 1	1932	+ 21	670	+ 20
	2. ENGLAND, N.E.	69	36	61·6	46·9	53·9	1 below	83	−13	0	0	2126	+ 95	471	− 78
	3. ENGLAND, EAST	67	39	61·3	45·9	53·2	3 below	78	−28	0	0	2530	+173	493	−124
	4. MIDLAND COUNTIES	69	35	62·1	45·3	53·3	2 below	79	−25	0	0	2478	+122	504	−115
	5. ENGLAND, SOUTH	70	40	63·5	49·3	56·1	2 below	99	−19	0	0	2780	+227	297	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	72	33	60·4	47·6	53·7	0 (average)	82	− 5	0	0	2072	+ 81	445	− 17
	7. ENGLAND, N.W.	67	35	60·5	48·9	54·4	1 below	87	−14	0	0	2308	+140	367	− 92
	8. ENGLAND, S.W.	72	34	63·0	48·3	55·3	1 below	93	−13	0	0	2620	+234	223	−138
	9. IRELAND, NORTH	68	36	60·0	47·6	53·7	0 (average)	82	− 9	0	0	2123	+ 11	403	+ 8
	10. IRELAND, SOUTH	70	35	62·0	46·3	53·8	2 below	83	−20	0	0	2509	+126	242	− 57
	—CHANNEL ISLANDS	67	48	62·8	53·5	57·9	1 below	111	−10	0	0	2996	+323	68	− 80

Rainfall. **Bright Sunshine.**

	DISTRICTS. (See p. 218.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	11	1 more	161	− 6	27·8	− 4·1	19	− 3	21	− 2	1044	+158	30	+ 5
	1. SCOTLAND, EAST	5	3	4 less	148	+11	21·4	− 0·1	27	− 1	31	0	1132	+ 76	33	+ 3
	2. ENGLAND, N.E.	3	2	3 less	133	+ 6	17·8	+ 0·2	32	+ 4	37	+ 6	1215	+163	35	+ 5
	3. ENGLAND, EAST	3	5	1 less	130	+ 7	17·0	− 0·4	22	−13	25	−14	1331	+ 83	39	+ 2
	4. MIDLAND COUNTIES	2	1	5 less	130	+ 9	20·2	+ 1·1	23	− 9	26	− 9	1261	+133	37	+ 4
	5. ENGLAND, SOUTH	3	4	2 less	122	+ 6	20·4	+ 1·6	39	0	45	0	1377	+ 67	40	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	5	5 less	158	+15	31·0	− 0·8	27	− 4	30	− 3	1170	+ 34	33	+ 1
	7. ENGLAND, N.W.	3	4	5 less	147	+15	24·3	+ 1·8	31	0	35	0	1264	+108	36	+ 3
	8. ENGLAND, S.W.	2	4	5 less	153	+21	31·6	+ 6·5	43	+ 5	49	+ 7	1376	+ 22	41	+ 1
	9. IRELAND, NORTH	4	3	5 less	169	+13	29·6	+ 4·6	24	− 2	27	− 2	1073	+ 49	31	+ 1
	10. IRELAND, SOUTH	2	1	6 less	161	+20	31·8	+ 5·5	43	+12	48	+13	1138	− 21	33	− 1
	— CHANNEL ISLANDS	2	3	5 less	162	+24	25·9	+ 5·4	46	+ 1	53	+ 5	1430	−116	43	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was fine and dry generally during the earlier half of the week, although a good deal of cloud prevailed at times and some slight showers occurred in the extreme north and north-east. By Thursday, however, unsettled, rainy conditions had commenced to spread slowly over us from the northward and by the close of the period the change had extended to all parts of the Kingdom.

Temperature was again below the mean in most districts, but was rather above the normal in Scotland N. and E., and just equal to it in Scotland W. and Ireland N. The highest of the maxima were recorded on the 13th, and ranged from 78° in Scotland E. and from 72° in Scotland N. and W., and England S.W., to 67° in England E. and N.W. and in the Channel Islands. Towards the end of the week the daily maxima were very low. The lowest of the minima were registered either at the commencement or at the end of the period, and ranged from 33° in Scotland W. and 34° in England S.W. to 40° in England S. and to 48° in the Channel Islands.

Rainfall was less than the mean excepting in Scotland N. The deficit was very considerable in most districts, and especially in the W. and S.W.

Bright Sunshine exceeded the mean in England N.E. and S.W. as well as in Ireland S. and the Channel Islands; in most other districts there was a deficiency. The percentage of the possible duration ranged from 53 in the Channel Islands, 49 in England S.W., and 48 in Ireland S. to 25 in England E., and 21 in Scotland N.

Barometer and Wind.—During the earlier half of the week a large anticyclone covered our Islands and their neighbourhood, with light Westerly breezes in the north and light North-Easterly and Easterly winds in the south. By the middle of the week, however, a large shallow depression had appeared in the north, and this system gradually spread southwards, the anticyclone at the same time decreasing in intensity and moving away south-westwards. By the end of the week a secondary disturbance had appeared over the southern parts of the North Sea, and the wind, which had become moderate to strong from the Westward, consequently veered to the North-Westward or Northward.

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II.—DATA from which the SUMMARY on page 217 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches	Inches.				
0. SCOTLAND, N.	Sumburgh Head	59	39	54·7	46·6	50·5	+ 0·1	60	0	6	1·00	+ 0·20	*	*	*	*
	Stornoway	66	41	56·3	47·9	51·9	+ 0·9	69	0	6	0·86	− 0·09	25·4	+ 0·4	29	+ 2
	Wick	67	37	60·0	46·3	52·8	+ 1·1	76	0	6	0·41	− 0·18	*	*	*	*
	Lairg Ⓢ	72	38	61·4	46·0	53·4	+ 2·3	80	0	6	0·54	− 0·16	*	*	*	*
	Glencarron Ⓢ	64	41	54·7	47·6	51·0	+ 0·1	63	0	6	3·09	+ 1·41	*	*	*	*
	Fort Augustus Ⓢ	71	37	59·1	47·8	53·2	+ 0·2	78	0	5	0·86	− 0·04	13·7	− 3·9	16	− 3
	Fort William Ⓢ	67	42	57·8	49·5	53·5	− 0·1	81	0	5	1·18	− 0·44	16·4	− 5·8	19	− 5
1. SCOTLAND, E.	Nairn	70	40	63·0	47·4	54·8	+ 2·0	90	0	7	0·48	− 0·10	*	*	*	*
	Aberdeen	69	40	61·9	45·9	53·5	+ 0·7	81	0	5	0·44	− 0·23	32·4	+ 1·6	37	+ 4
	Braemar Ⓢ	64	38	57·3	44·8	50·8	+ 1·4	62	0	6	0·35	− 0·45	25·8†	+ 0·2†	29†	+ 1†
	Ochtertyre Ⓢ	78	36	64·9	45·1	54·5	+ 1·6	88	0	2	0·19	− 0·58	*	*	*	*
	Leith	72	40	64·9	47·4	55·7	+ 1·4	96	0	5	0·14	− 0·38	*	*	*	*
	Marchmont Ⓢ	66	37	60·6	44·6	52·2	+ 0·1	71	0	6	0·35	− 0·40	26·0	− 2·7	30	− 1
2. ENGLAND, N.E.	Alnwick Castle	66	37	62·1	45·7	53·5	+ 0·8	81	0	4	0·11	− 0·53	*	*	*	*
	Durham	69	36	62·6	45·2	53·5	− 0·2	81	0	2	0·36	− 0·19	32·6	+ 4·0	37	+ 5
	Shields	67	40	61·1	46·6	53·5	− 0·6	81	0	4	0·18	− 0·37	*	*	*	*
	Scarborough Ⓜ													?		?
	York	68	40	62·9	45·9	54·0	− 1·1	84	0	2	0·04	− 0·53	32·7	+ 4·2	37	+ 5
	Spurn Head	63	46	59·1	50·9	54·8	− 1·7	90	0	2	0·32	− 0·10	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	67	39	61·9	44·8	52·9	− 2·7	76	0	2	0·47	− 0·13	19·7	−13·3	22	−15
	Yarmouth	61	45	58·7	47·7	52·9	− 3·8	76	0	5	1·13	+ 0·50	*	*	*	*
	Geldeston	64	40	61·4	46·1	53·4	− 3·1	80	0	3	0·59	+ 0·03	24·3	−13·4	28	−14
	Cambridge	67	42	63·4	45·6	54·1	− 2·5	85	0	2	0·33	− 0·17	18·9	−16·6	21	−18
	Rothamsted	66	40	61·2	45·2	52·8	− 2·5	76	0	3	0·13	− 0·47	26·8	− 8·2	30	− 9
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	68	36	62·6	44·4	53·1	− 1·9	78	0	2	0·06	− 0·45	*	*	*	*
	Loughborough	69	40	63·7	45·6	54·2	− 1·9	85	0	1	0·15	− 0·42	*	*	*	*
	Stamford (Duddington)	68	40	62·3	45·0	53·2	− 3·4	78	0	3	0·12	− 0·51	*	*	*	*
	Cheadle Ⓜ	65	39	60·2	46·7	53·1	− 0·5	78	0	3	0·23	− 0·48	*	*	*	*
	Shirley (near Solihull)	65	38	62·0	45·4	53·3	− 1·9	79	0	4	0·14	?	*	*	*	*
	Churchstoke Ⓜ	68	35	62·5	44·5	53·1	− 0·6	78	0	4	0·17	− 0·46	29·2	− 3·8	33	− 3
	Hereford Ⓜ	69	36	62·6	45·3	53·5	− 2·1	81	0	2	0·03	− 0·57	*	*	*	*
	Cirencester	66	41	61·0	44·7	52·5	− 2·0	74	0	2	0·36	− 0·32	24·3	− 9·2	28	− 9
	Oxford	68	42	62·0	46·3	53·8	− 2·4	83	0	1	0·33	− 0·56	24·6	−10·7	28	−11
5. ENGLAND, S.	London	69	40	63·4	45·9	54·2	− 3·4	85	0	3	0·36	− 0·16	24·3†	− 7·3†	28†	− 7†
	North Foreland	64	47	60·9	53·4	57·0	− 0·9	105	0	4	0·38	?	*	*	*	*
	Dungeness	69	44	63·7	50·7	56·9	− 1·2	104	0	2	0·40	− 0·20	*	*	*	*
	Hastings (St. Leonards)	66	44	62·6	49·8	55·9	− 1·9	97	0	5	0·94	+ 0·32	30·1	− 0·9	45	0
	Southampton	70	44	66·6	48·4	57·1	− 0·8	106	0	3	0·33	− 0·33	44·0	+ 4·0	51	+ 8
	Hurst Castle	67	47	65·1	50·1	57·2	− 1·3	106	0	1	0·01	− 0·63	*	*	*	*
	Shaftesbury Ⓜ	66	40	62·2	46·9	54·2	− 1·3	85	0	3	0·41	− 0 36	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	68	38	59·1	47·3	52·9	− 0·2	76	0	6	1·08	− 0·50	*	*	*	*
	Glasgow	67	39	58·6	48·3	53·2	+ 0·6	78	0	2	0·71	− 0·17	23·0	− 2·8	26	− 2
	Ardrossan	67	42	59·3	49·1	54·0	− 0·3	84	0	2	0·28	− 0·52	*	*	*	*
	Glenlee Ⓢ	69	33	62·2	44·2	52·8	− 0·1	76	0	3	0·49	− 0·63	*	*	*	*
	Gilcrux	69	37	60·5	48·1	54·0	+ 0·8	84	0	5	0·27	?	28·0	?	32	?
	Douglas (Isle of Man)	72	40	62·9	48·7	55·5	+ 1·7	95	0	4	0·14	− 0·70	?29·2	−?5·3	? 33	−?5
7. ENGLAND, N.W.	Stonyhurst	67	35	59·1	46·3	52·4	− 1·9	73	0	4	0·37	− 0·77	28·4	− 1·8	32	− 2
	Blackpool Ⓜ	66	37	62·3	48·2	54·9	− 0·3	90	0	3	0·21	− 0·64	30·8	+ 2·0	35	+ 2
	Manchester (Prestwich)	66	39	60·8	47·4	53·8	− 0·7	83	0	3	0·48	− 0·44	26·7	?	30	?
	Liverpool Obsy. (Bidston)	63	42	59·7	49·9	54·6	− 1·3	88	0	4	0·43	− 0·32	*	*	*	*
	Llandudno Ⓜ	66	45	61·8	50·6	55·9	− 0·9	97	0	3	0·59	− 0·11	*	*	*	*
	Holyhead	64	45	59·4	50·9	55·0	− 1·6	91	0	3	0·24	− 0·48	*	*	*	*
8. ENGLAND, S.W.	Llandovery	72	34	66·7	43·0	54·3	− 0·6	86	0	4	0·50	− 0·55	*	*	*	*
	Pembroke	64	46	60·4	50·4	55·2	− 1·4	92	0	1	0·27	− 0·51	38·9	+ 1·9	44	+ 4
	Clifton	67	44	62·5	49·6	55·7	− 0 2	96	0	1	0·27	− 0·51	*	*	*	*
	Arlington (N. Devon)	68	40	62·1	46·9	54·1	− 0·9	85	0	3	0·82	− 0·26	*	*	*	*
	Cullompton Ⓜ	70	40	65·4	46·2	55·3	− 1·4	93	0	3	0·49	− 0·26	41·6	+ 5·7	48	+ 9
	Falmouth	66	47	61·4	51·3	56·1	− 0·9	99	0	3	0·65	− 0·34	43·5	+ 4·7	50	+ 7
	Plymouth	68	44	62·8	49·3	55·7	− 1·9	96	0	3	0·11	− 0·69	44·9	+ 7·0	52	+10
	Prawle Point	66	43	62·7	49·4	55·7	− 1·6	96	0	1	0·04	− 0·54	*	*	*	*
9. IRELAND, N.	Malin Head	61	44	57·0	50·4	53·5	− 1·2	81	0	5	0·43	?	*	*	*	*
	Londonderry	66	42	60·8	49·0	54·6	+ 0 5	88	0	5	0·49	− 0·36	*	*	*	*
	Edenfel (Omagh)	66	41	58·7	47·3	52·7	+ 0·5	75	0	5	0·43	− 0·37	*	*	*	*
	Belmullet	? 65	46	60·0	51·3	55·4	+ 0·3	94	0	5	0·09	− 0·91	*	*	*	*
	Markree Castle	68	41	61·5	44·8	52·8	− 0·2	76	0	4	0·53	− 0·37	23·1	− 2·4	26	− 2
	Armagh	68	38	62·0	45·9	53·6	+ 0·2	81	0	4	0·14	− 0·50	24·6	− 2·2	28	− 2
	Donaghadee	67	43	61·6	48·1	54·5	0·0	88	0	3	0·14	− 0·50	*	*	*	*
	Edgeworthstown	67	36	61·9	43·9	52·5	− 0·6	74	0	2	0·26	− 0·41	*	*	*	*
10. IRELAND, S.	Dublin	67	41	61·8	49·3	55·3	0·0	93	0	3	0·24	− 0·26	43·1	+ 9·9	49	+12
	Parsonstown	69	36	63·0	43·7	52·9	− 1·1	76	0	2	0·03	− 0·66	38·9	+ 9·9	44	+12
	Kilkenny	70	39	63·1	44·7	53·5	− 2·1	81	0	2	0·12	− 0·55	*	*	*	*
	Roche's Point	69	45	61·9	49·7	55·5	− 0·6	95	0	1	0·06	− 0·81	*	*	*	*
	Valencia	63	41	59·6	45·7	52·3	− 4·2	72	0	3	0·13	− 0·90	46·0	+14·2	52	+17
	Killarney	70	35	63·4	43·3	52·9	− 2·7	76	0	2	0·27	?	*	*	*	*
	Foynes	67	42	61·5	47·7	54·3	− 0·6	86	0	2	0·04	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	48	61·6	52·9	57·0	− 1·2	105	0	2	0·18	− 0·59	41·8	?	48	?
	Jersey	67	52	63·9	54·1	58·8	− 1·5	118	0	2	0·35	− 0·34	50·8	+ 3·3	58	+ 7

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

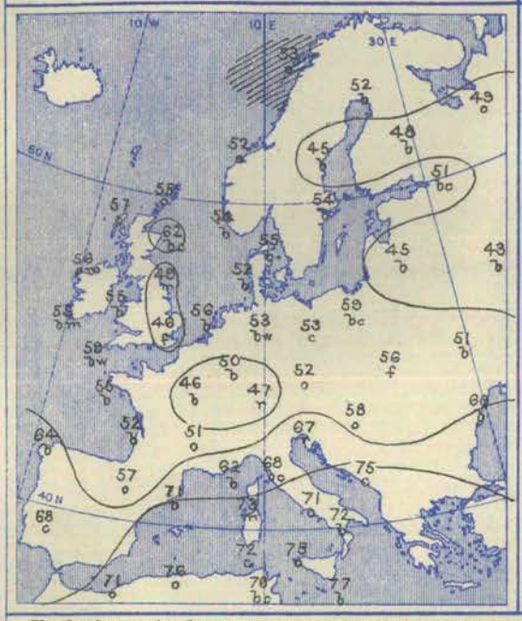
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 12th September.

Temperature and Weather.

8 a.m.

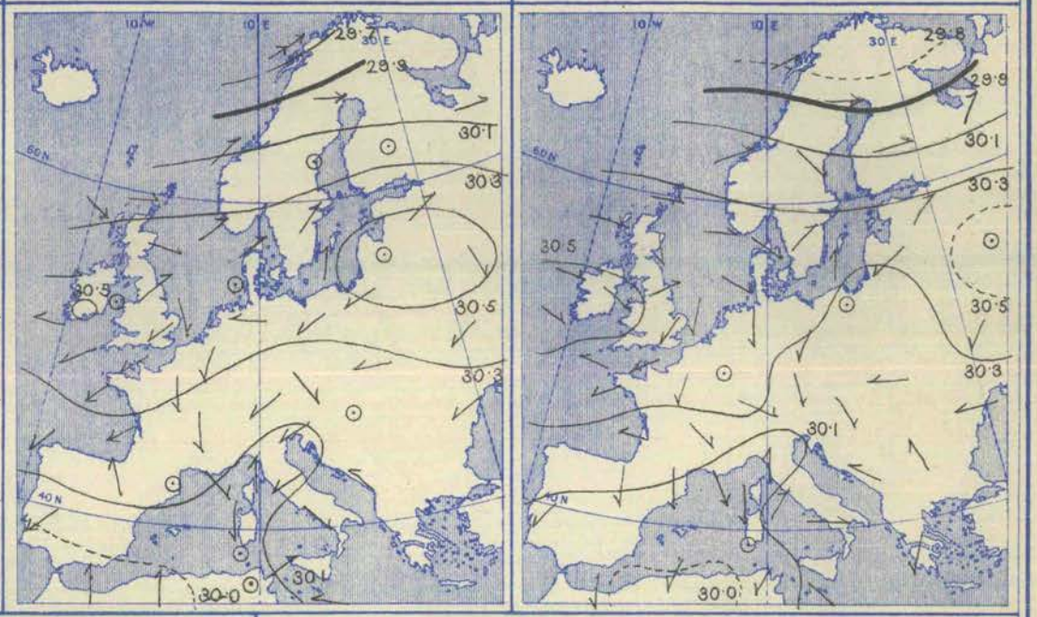


Weather in morning fine over the greater part of our Islands and the Continent, but foggy at many of the English stations, and also in the south of Ireland. Dull on our extreme north and north-west coasts, as well as in the west of Norway and in many parts of Germany, Austria, and northern Italy, with rain at Breslau, Munich, and Trieste. Slight rain falling later in the north of Scotland, and larger quantities in the west of Norway, and also in Germany; thunderstorm, with heavy rain, occurring at Algiers.

Temperature risen briskly in Scotland, fallen in the east and south-east of England, changed irregularly elsewhere. Morning readings highest, 77° at Malta, 76° at Algiers and La Calle, and 75° at Lesina, Palermo, and Tunis; above 65° in many parts of southern Europe, and above 60° in the east of Scotland. Lowest, (1) 43° at Parsonstown, 44° at York, and 46° in London; (2) 43° at Moscow, and 45° at Riga; (3) 46° at Paris, and 49° at Le Mans. Rising during day to 65° and upwards in many parts of Great Britain, and to 70° at Leith; exceeding 70° in Spain and the south of France, and exceeding 80° over central and southern Italy, the highest reading of all being 93° at Palermo.

Barometer and Wind.

8 a.m. 6 p.m.



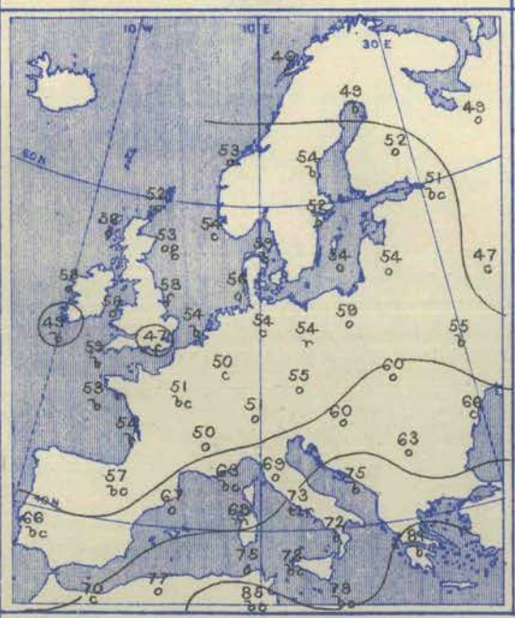
Wind Westerly or South-Westerly over the northern parts of our Islands, and also over Scandinavia and northern Russia; light or moderate in force generally, but blowing a gale at Bodö and Faerder. North-Easterly (Northerly to Easterly) over the south of our Islands, and also over France, Spain, the Netherlands, Germany, and the south of Russia; fresh or strong in force over the Bay of Biscay. Variable in Italy. South-Westerly breezes setting in later over Italy; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards in a long band extending from Gothland to central Russia, and also in a small area over the south-east of Ireland; 30·2 ins. and upwards in an anticyclone covering all but the extreme northern and southern parts of Europe. Lowest, 29·7 ins. and less in a depression off the north-west of Norway. Depression subsequently moving away to the north-eastward, and barometer rising in most parts of western Europe.

Monday, 13th September.

Temperature and Weather.

8 a.m.

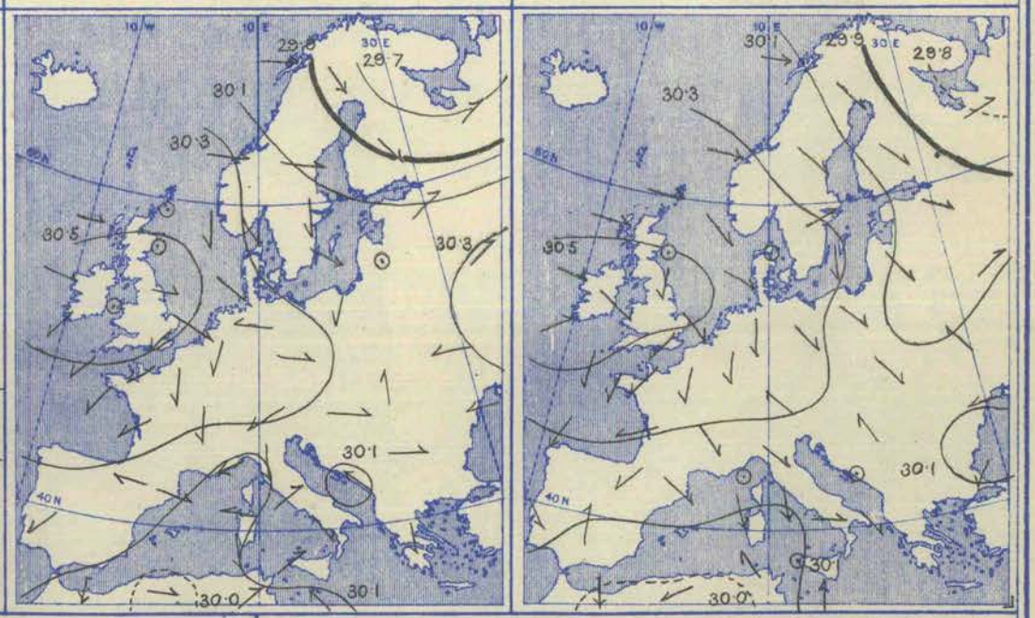


Weather in morning fine over the southern parts of our Islands generally, and also over Sweden, the Netherlands, France, Spain, and southern Italy; foggy over the eastern and central parts of England. Cloudy or dull in most other parts of Europe, with rain at Berlin and a thunderstorm at Rome. Sky clearing later at most of our own northern stations, but a little rain falling in the east of Scotland, and much larger quantities in Austria and central Spain; thunderstorm occurring at Aumale. Rain setting in at night in the west of Norway.

Temperature changed very irregularly. Morning readings highest, 85° at La Calle, 81° at Patras, 79° at Athens, and 78° at Malta; above 65° in most parts of southern Europe. Lowest, (1) 46° at Bodö, 47° at Moscow, and 49° at Archangel and Haparanda; (2) 47° in London, and at Oxford, and 49° at Valencia (Ireland); (3) 49° at Le Mans and Limoges. Rising during day to 65° and upwards in many parts of the United Kingdom, to 70° at Nairn, and to 72° at Leith. Exceeding 70° over southern Europe generally; exceeding 80° over central and southern Italy, and reaching 93° at Palermo.

Barometer and Wind.

8 a.m. 6 p.m.



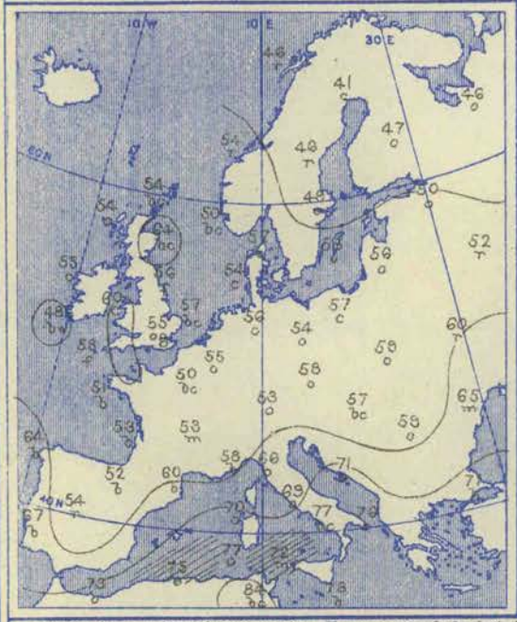
Wind Northerly or North-Easterly over the south of our Islands, and also over the Netherlands, France, and the Spanish Peninsula; light in force generally, but moderate to fresh in the west and south of France. Light from the Westward over the northern parts of the United Kingdom; moderate to strong from the same quarter or from North-Westward over Scandinavia and Finland; light from the North-Westward or Northward over Denmark and Germany. Variable in Austria and Italy; Easterly or North-Easterly in the south of Russia. No important change occurring over western Europe during day.

Barometer highest, 30·5 ins. and upwards over all but the extreme northern and south-eastern parts of our Islands; 30·3 ins. and upwards in an anticyclone covering nearly the whole of western Europe, and also in another system over the central and southern parts of Russia. Lowest, 29·8 ins. and less in a depression over the extreme north of Russia; 30·0 ins. and less in a very shallow area over Algeria. No decided change occurring during day.

Tuesday, 14th September.

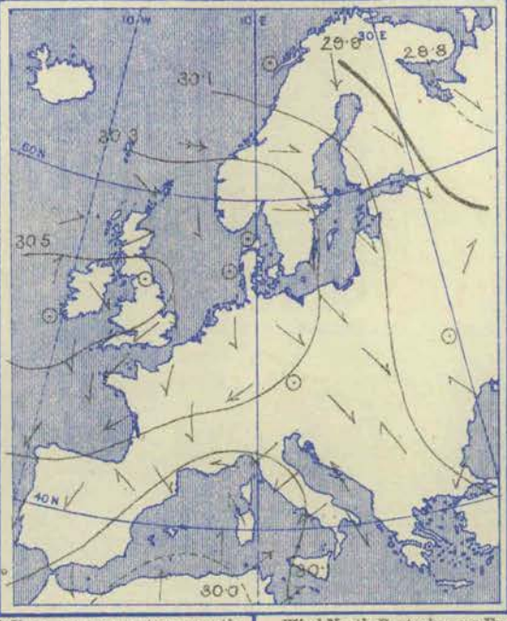
Temperature and Weather.

8 a.m.



Barometer and Wind.

8 a.m.



6 p.m.

Weather in morning fair over western Europe as a whole, but dull on our own extreme north-west coasts, as well as at some stations in the south-east of England, with rain at the North Foreland. Dull in most of the northern, central, and southern parts of Europe, with rain in several isolated places, but fine at some of the Austrian stations. A little rain falling later over the northern parts of our Islands, and larger amounts in some parts of France and northern Italy—as much as 1·6 ins. at Leghorn; solar halo seen at Spurn Head.

Temperature risen in many parts of our Islands, but changed very irregularly elsewhere. Morning readings highest, 84° at Sfax, 78° at Malta, and 77° at Naples, Cagliari, and Aumale; above 65° in many parts of southern Europe, and very little below it in the east of Scotland. Lowest, (1) 41° at Haparanda, 44° at Uleaborg, and 46° at Bodö, Hernösand, and Archangel; (2) 48° at Valencia (Ireland); (3) 49° at Le Mans, and 50° at Paris. Rising during day to 55° and upwards in many parts of our Islands, and to 69° at Parsonstown and Roche's Point; exceeding 75° in many parts of southern Europe, and reaching 91° at Malta.

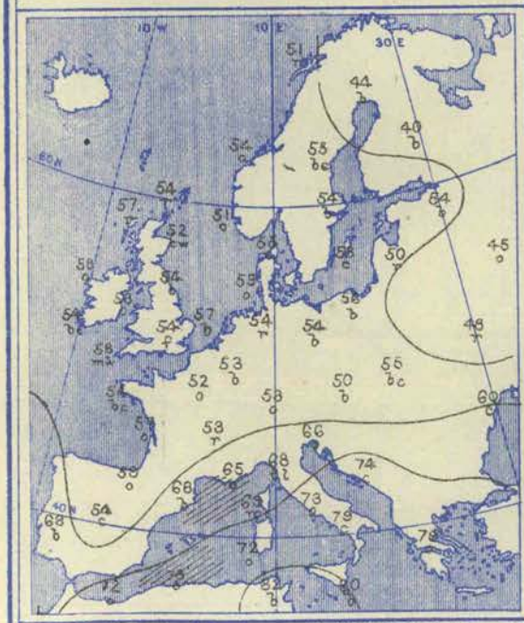
Wind North-Easterly over England, France, and the greater part of southern Europe; light or moderate in force in most places, but strong at Rochefort and Munich. Westerly over the northern parts of our Islands and Scandinavia, with a gale at Christiansund; Northerly or North-Westerly over the south of Scandinavia, northern and western Russia, and the greater part of Germany and Austria; calm in Denmark. Subsequently backing to the South-Westward in the extreme north of Scotland; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over Ireland and England; 30·2 ins. and upwards in an anticyclone covering the whole of western and central Europe. Lowest, 29·8 ins. and less in a shallow depression over northern Russia; 30·0 ins. and less in another shallow system over Algeria. Slight fall of barometer taking place over western Europe during day, but general distribution of pressure remaining unchanged.

Wednesday, 15th September.

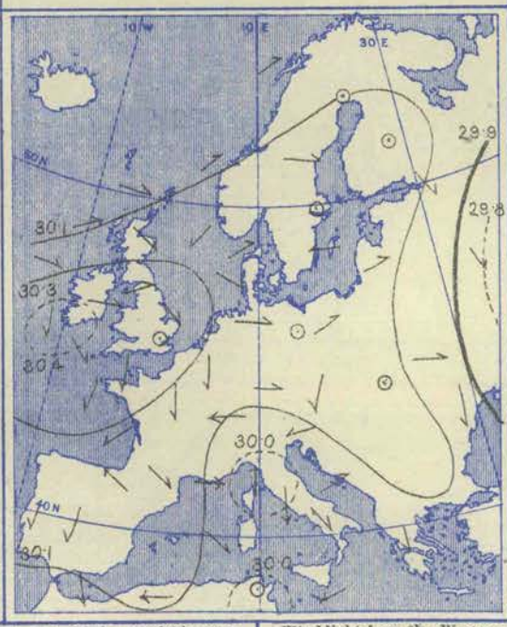
Temperature and Weather.

8 a.m.

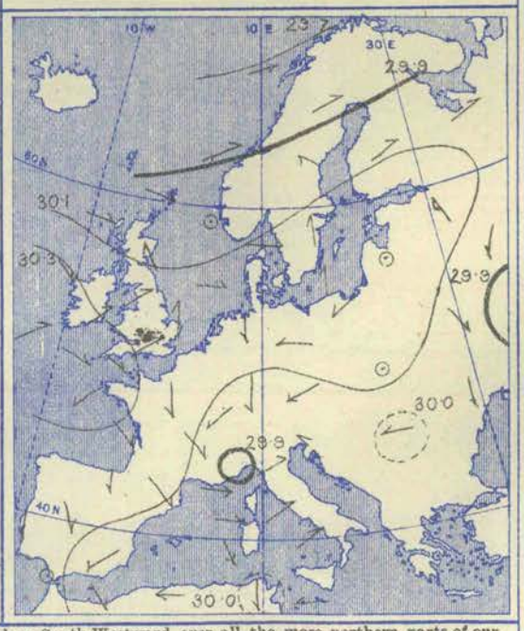


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over the United Kingdom as a whole, but with fog or mist in many places, rainy in the extreme north of Scotland, and showery on the Kentish coasts. Fine in Sweden and Finland, but cloudy or dull in most other Continental countries, with rain at several isolated stations, and a thunderstorm at Leghorn. Slight rain falling later in many parts of the United Kingdom, and larger quantities at several of the Continental stations—as much as 1·5 ins. at Hermanstadt; sky clearing over the western part of the Continent.

Temperature risen in the extreme west of our Islands, as well as over Scandinavia and the greater part of southern Europe, but fallen in most other localities. Morning readings highest, 82° at Sfax, 80° at Malta, and 79° at Naples, Athens, Patras, and Tunis; above 65° over southern Europe generally. Lowest, 40° at Kuopio, 41° at Helsingfors, and 44° at Haparanda and Uleaborg, and 45° at Moscow. Rising during day to 65° or a little above it in several parts of Great Britain; exceeding 75° over southern Europe generally, and reaching 91° at Malta.

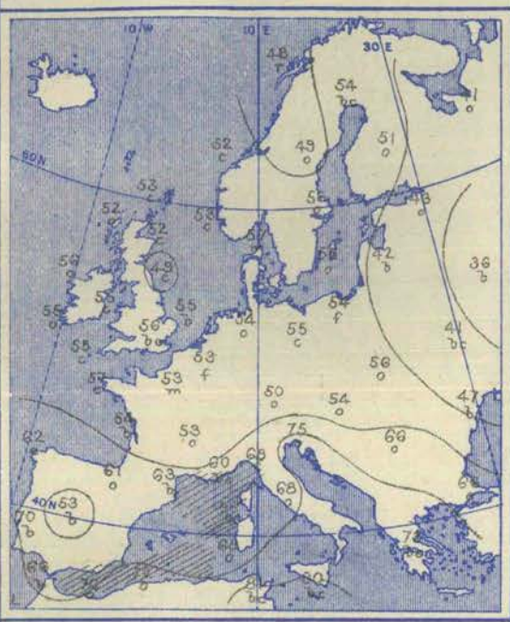
Wind light from the Westward or South-Westward over all the more northern parts of our Islands, and also over Denmark and the northern parts of Scandinavia, but varying between North and East in the south of Scandinavia. Light to moderate from the Northward in the south of our Islands, and from the same quarter or from North-East over Belgium, western Germany, France, and the Spanish Peninsula. Calm or variable over eastern Germany; Easterly or North-Easterly in Austria, Northerly or North-Westerly in Russia; variable in Italy. Subsequently veering to the North-Westward in the north of Ireland; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in the south of Ireland; 30·2 ins. and upwards in an anticyclone covering nearly the whole of western and central Europe. Lowest, 29·8 ins. and less in a depression over central Russia; 30·0 ins. and less in two shallow systems, one lying over Corsica and the Gulf of Genoa, and the other over Tunis. Anticyclone dispersing gradually later, and further low-pressure systems beginning to appear off the Norwegian coasts.

Thursday, 16th September.

Temperature and Weather.

8 a.m.

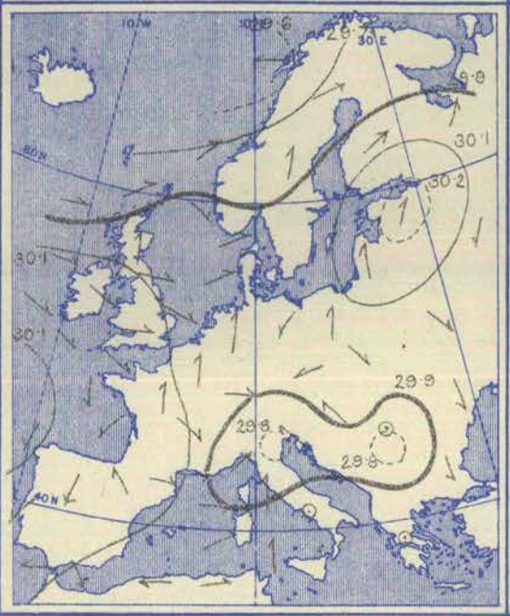


Weather in morning fair over north-western Europe as a whole, but dull in places, with slight rain at Oxford; rain falling also at Bodö and Karlstad. Dull in most parts of France, Germany, Austria, and northern Italy, with fog at Swinemunde and Neufahrwasser, and rain at Belfort and Le Mans; fine over the Spanish Peninsula, and also over the central and southern parts of Russia. Rain falling later over the north of our Islands generally, as well as at many of the Continental stations—heavily in some parts of Austria.

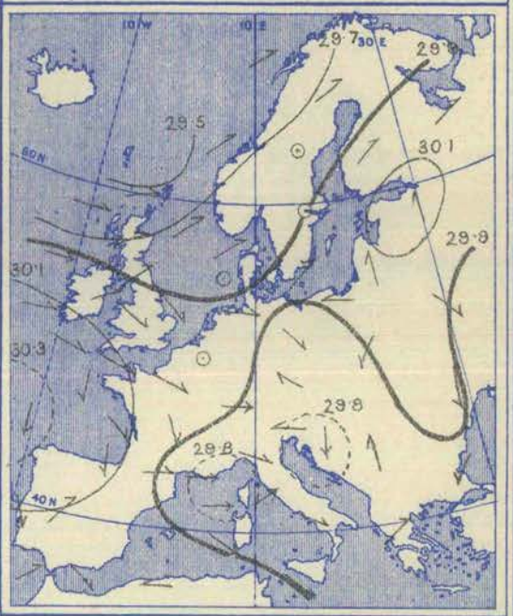
Temperature fallen in the north-west and extreme north of our Islands, changed irregularly elsewhere. Morning readings highest, 81° at Sfax, 80° at Malta, 75° at Trieste, and 73° at Athens and Tunis; above 65° in many parts of southern Europe. Lowest, (1) 36° at Moscow, 39° at Kharkov, and 41° at Archangel and Kiev; (2) 40° at Shields and 51° at Wick. Daily maxima below 60° on many parts of our own western and extreme northern coasts, and below 65° in nearly all other parts of the Kingdom, but thermometer reaching 69° at Dungeness. Exceeding 70° over southern Europe generally, and reaching 81° at San Fernando, and 88° at Malta.

Barometer and Wind.

8 a.m.



6 p.m.



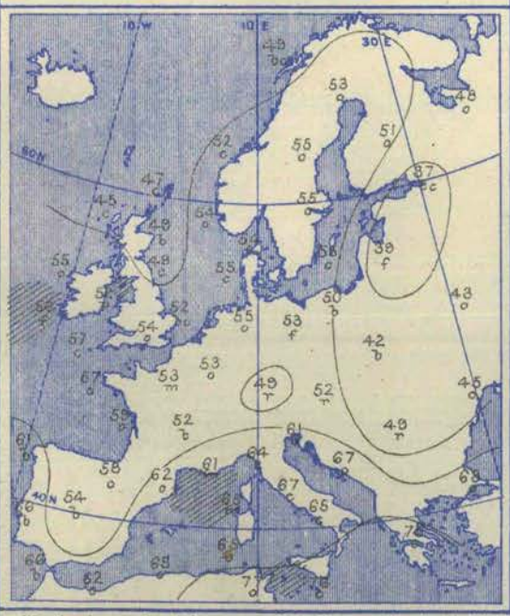
Wind light from the Westward over the northern parts of our Islands, and from the North-Westward over our southern coasts and the north of France. Southerly or South-Westerly over the Netherlands, Denmark, Scandinavia, and northern Russia, and strong in force at Karlstad and Kuopio; Northerly or North-Westerly over the south of Russia. Variable over Austria, Italy, and the south of France; North-Easterly over the Spanish Peninsula. Subsequently increasing from the Westward on our extreme north-west coasts, and blowing with the force of a gale at Malin Head.

Barometer highest, 30·2 ins. and upwards in an anticyclone lying over the south-west of our Islands and the north-western parts of France and Spain, as well as in another system over the north-west of Russia. Lowest, 29·6 ins. and less in a depression lying off the north-west of Norway; 29·8 ins. and less in two other systems—one lying over eastern Austria, and the other over Switzerland. Depression in north subsequently spreading southwards, and barometer falling over western Europe generally.

Friday, 17th September.

Temperature and Weather.

8 a.m.

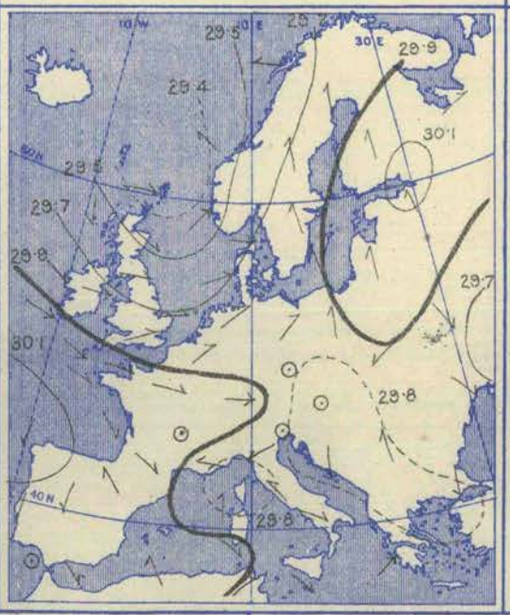


Weather in morning fair over our Islands generally, but dull in the west of Ireland, and showery at Holyhead. Cloudy or dull in most of the Continental countries, with rain and fog in several isolated places, but fine over eastern Germany, and also over the Spanish Peninsula. Rain falling later in nearly all parts of western Europe—rather heavily in many places, as well as at Brindisi; thunderstorms occurring at Fanö and Liverpool, and lightning seen at the North Foreland at night, and in other parts of Kent and Sussex.

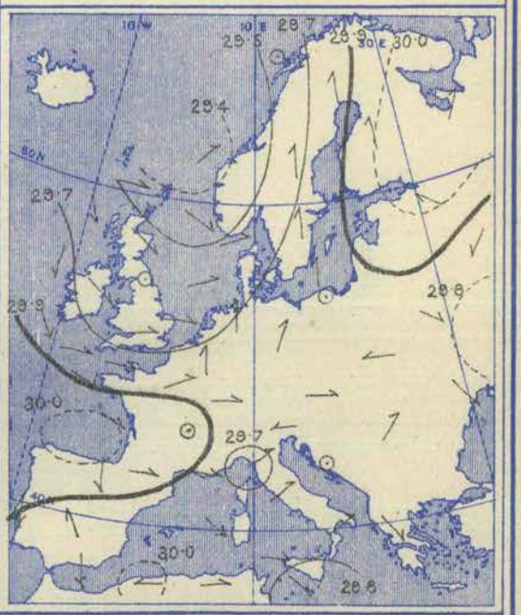
Temperature fallen over most of the north-western countries, but changed rather irregularly elsewhere. Morning readings highest, 77° at Sfax, 76° at Malta, 75° at Athens, and 69° at Barcelona; above 60° over southern Europe generally. Lowest, (1) 37° at St. Petersburg, 39° at Riga and Warsaw, and 42° at Cracow and Lemberg; (2) 45° at Stornoway, and 47° at Sumburgh Head and Nairn. Daily maxima below 60° at most of our own western, northern, and eastern stations, and very little above it in the central and southern districts as a whole, but reaching 66° at Dungeness, and exceeding 70° in the south of France.

Barometer and Wind.

8 a.m.



6 p.m.

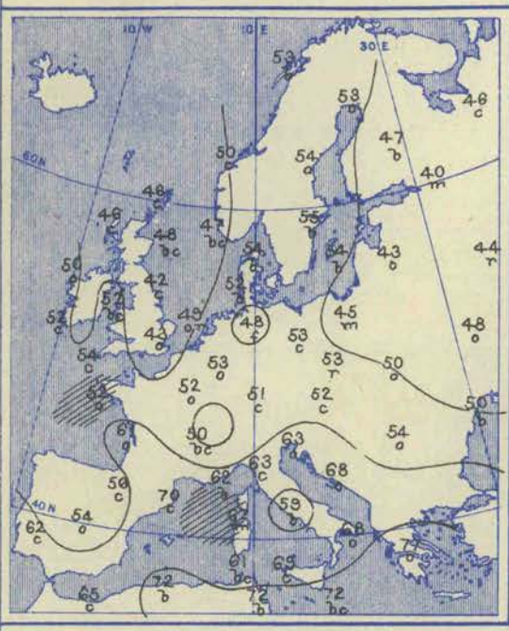


Wind moderate to strong from the Westward or North-Westward over the greater part of our Islands and France; light to moderate from the South-Westward over the south-east of England, the Netherlands, and Denmark, Southerly in most parts of Scandinavia and the north of Russia, but Easterly in the west of Norway. Light and variable over Austria, Italy, and Greece, Northerly or North-Easterly over the Spanish Peninsula. Subsequently veering to the Northward on our own extreme western coasts; no important change occurring elsewhere.

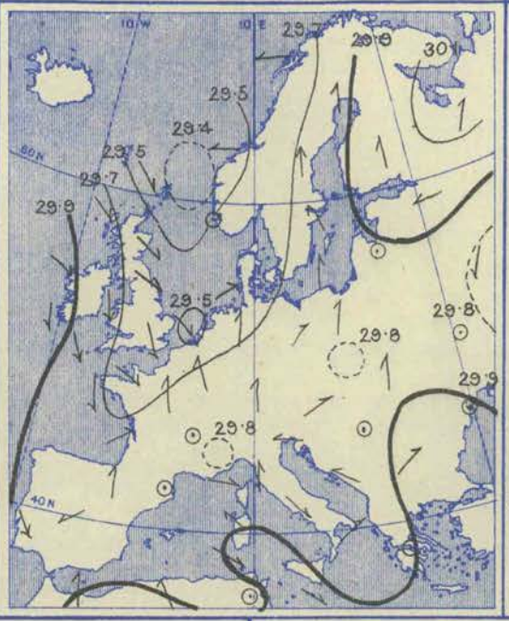
Barometer highest, 30·1 ins. and upwards in an anticyclone lying off the north-west of Spain, and also in another system over northern Russia, with its centre near St. Petersburg. Lowest, 29·4 ins. and less in a depression lying between the north-east of Scotland and the Norwegian coasts; 29·6 ins. and less in another disturbance over the south of Russia; 29·8 ins. and less in a third system over Corsica and the Gulf of Genoa. Depression off Norwegian coast subsequently moving slowly north-eastwards; small secondary disturbances advancing south-eastwards across our Islands.

Saturday, 11th September.

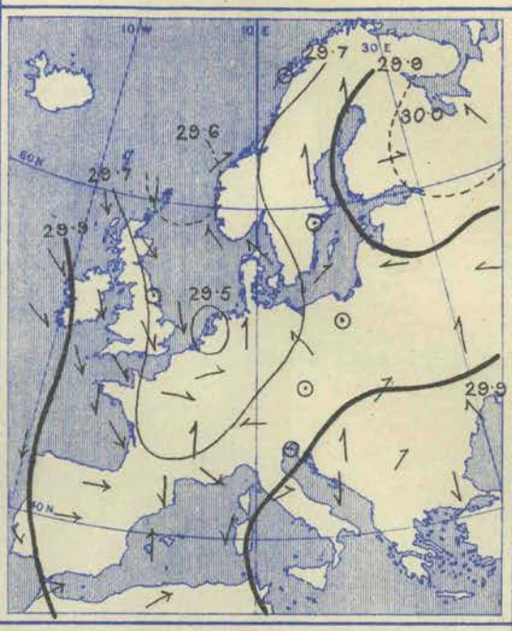
Temperature and Weather. — 8 a.m.



Barometer and Wind. — 8 a.m.



Barometer and Wind. — 6 p.m.



Weather in morning very variable locally; fine and bright in many places, cloudy or overcast in many others; rainy and misty over the east of England, in some parts of central Europe, and at Moscow. Rain falling later in many parts of our Islands, more heavily and generally over France and the Netherlands—falls heavy at Nice and Brussels, and very considerable at the Helder and Yarmouth; thunder, lightning, and hail occurring over the south and east of England.

Temperature falling over Ireland, England, and the north of France; rising over central Europe and the Baltic Provinces. Morning readings highest, 77° at Athens, 72° at Palermo and Tunis, 70° at Barcelona; above 60° in the south of France, and above 50° over central Europe, and on our own south-western and southern coasts, and on the coasts of Scandinavia. Lowest, 42° at Shields, 43° at Oxford, 46° at Loughborough, as well as at Archangel, 45° at Neufahrwasser, 48° at Kiev. Exceeding 50° at a few of our stations later, and touching 64° at Berlin, and 75° at Nice, but not exceeding 56° at Paris.

Wind (1) Northerly to North-Westerly over our Islands—light at our eastern stations, fresh to strong elsewhere, but light from South-West and South over the north-east of France and the Netherlands; moderate from the Southward over the Baltic, Finland, and Sweden; (2) very light and variable over southern, central, and eastern Europe. No decided change later.

Barometer highest, (1) 29·9 ins. and more over the west of Ireland, and still higher over the Atlantic; (2) 30·1 ins. to 29·9 ins. over northern Europe. Lowest, (1) 29·4 ins. and less in a depression lying between the Shetland Islands and the Norwegian coasts, and below 29·5 ins. in a secondary system between the Helder and the Norfolk coast. Gradients moderate. Former disturbance filling up later; latter moving eastwards to the Netherlands.

GENERAL NOTES.

During the first portion of this week barometric pressure was high (30·5 ins. to 30·3 ins.) over the British Islands, the North Sea, the Baltic, and central Russia, while it was relatively low over Lapland on the one hand, and over the south of France and north of Africa on the other. The wind was consequently Westerly in the far north, North-Easterly and variable over the southern countries; and, while the weather in the British Islands was fine and dry, that over both southern and northern Europe was less fair, and that in Algeria was rainy and thundery. As the week advanced the high-pressure area over our Islands receded in a south-westerly direction, low-pressure systems from the northward and north-westward began to spread over the United Kingdom and western Europe, bringing with them strong cold winds and very cold rains, with thunderstorms and hail in several places.

At the close of the period there was no indication of any permanent improvement.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 218.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	23·0	− 4·0	26	− 3	EASTBOURNE	41·6	+ 2·5	48	+ 5
OSWALDKIRK (Yorkshire)	31·9	+ 4·7	36	+ 6	VENTNOR	47·7	?	55	?
WORKSOP	21·7	− 6·7	25	− 7	SOUTHPORT	33·2	?	38	?
THURCASTON (Leicestershire)	16·2	−14·0	18	−15	COLWYN BAY	33·3	?	38	?
MARGATE	35·0	− 0·5	40	0	NEWQUAY	39·8	+ 2·0	46	+ 4
WESTBOURNE (Sussex)	40·0*	+ 0·8	46*	+ 3	TORQUAY	46·9*	+ 7·4	54*	+10
BRIGHTON	41·2	+ 0·2	47	+ 2	GUERNSEY	45·7*	+ 0·1	52*	+ 3*

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending Apr. 17th, 1897	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	27·2	− 4·6	28	− 5
,, ,, ,, 24th ,,	Harrogate	54	34	50·0	37·0	43·2	− 2·3	29	14	3	0·20	?	32·2	?	32	?
,, ,, ,, ,, ,,	Thurcaston	—	—	—	—	—	—	—	—	—	—	—	29·4	+ 8·4	40	+ 8
,, ,, May 1st, ,,	Harrogate	62	34	54·6	39·6	46·7	0·0	43	7	5	0·24	?	36·5	?	35	?
,, ,, ,, ,, ,,	Killarney	60	35	54·3	40·6	47·1	− 2·1	42	4	5	0·41	?	—	—	—	—
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	37·8	− 5·4	37	− 7
,, ,, ,, 8th, ,,	Clifton	58	39	54·8	43·1	48·6	− 0·6	46	0	5	0·46	−0·01	—	—	—	—
,, ,, ,, ,, ,,	Edgeworthstown	55	32	50·2	37·1	43·3	− 5·3	30	14	6	0·63	+0·18	—	—	—	—
,, ,, ,, 15th, ,,	Clifton	61	35	55·2	41·0	47·7	− 2·7	44	3	1	0·01	−0·49	—	—	—	—
,, ,, ,, ,, ,,	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	44·8	+ 7·1	41	+ 7
,, ,, ,, 22nd, ,,	Edgeworthstown	67	36	64·8	40·8	52·1	+ 1·7	76	3	0	—	−0·60	—	—	—	—
,, ,, ,, 29th, ,,	Guernsey	—	—	—	—	—	—	—	—	—	—	—	27·9	−32·3	26	−31
,, ,, June 12th, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	41·0	−10·7	37	− 9

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WEEKLY WEATHER REPORT.

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VOL. XIV No. 38.] *Third Series.* WEEK ENDING SATURDAY, SEPTEMBER 25TH, 1897. [*Price 6d. Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 224.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	63	34	56·0	43·3	49·4	1 below	52	−14	0	− 1	1784	+153	622	− 3
	1. SCOTLAND, EAST	66	38	58·1	44·1	50·8	0 (average)	62	−15	0	− 1	1994	+ 6	670	+ 19
	2 ENGLAND, N.E.	67	36	59·4	45·9	52·4	1 below	73	−17	0	0	2199	+ 78	471	− 78
	3. ENGLAND, EAST	68	37	61·8	46·7	53·9	1 below	83	−16	0	0	2613	+157	493	−124
	4. MIDLAND COUNTIES	69	35	61.1	45·9	53·2	0 (average)	78	−19	0	0	2556	+103	504	−115
	5. ENGLAND, SOUTH	71	37	62·4	48·9	55·3	1 below	93	−15	0	0	2873	+212	297	−180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	61	36	57·4	46·2	51·6	1 below	67	−13	0	0	2139	+ 68	445	− 17
	7. ENGLAND, N.W.	65	33	58·8	48·6	53·5	1 below	81	−11	0	0	2389	+129	367	− 92
	8. ENGLAND, S.W.	66	34	60·1	48·6	54·0	1 below	84	−16	0	0	2704	+218	223	−138
	9. IRELAND, NORTH	64	39	58·3	47·2	52·5	0 (average)	74	− 6	0	0	2197	+ 5	403	+ 8
	10. IRELAND, SOUTH	68	39	59·8	49·2	54·2	0 (average)	85	− 8	0	0	2594	+118	242	− 57
	—CHANNEL ISLANDS	69	46	61·8	52·2	56·8	1 below	104	−10	0	0	3100	+313	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 224.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	26	16 more	167	− 4	30·4	− 2·6	24	+ 3	28	+ 4	1068	+160	30	+ 5
	1. SCOTLAND, EAST	5	4	3 less	153	+13	21·8	− 0·5	30	+ 4	36	+ 6	1162	+ 80	33	+ 3
	2. ENGLAND, N.E.	4	3	3 less	137	+ 6	18·1	− 0·1	32	+ 5	38	+ 7	1247	+169	35	+ 5
	3. ENGLAND, EAST	3	4	2 less	133	+ 7	17·4	− 0·6	41	+ 8	49	+10	1372	+ 91	39	+ 2
	4. MIDLAND COUNTIES	3	3	4 less	133	+ 9	20·5	+ 0·8	38	+ 8	45	+11	1299	+142	37	+ 4
	5. ENGLAND, SOUTH	4	2	5 less	126	+ 6	20·6	+ 1·1	33	− 2	40	− 1	1410	+ 64	40	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	11	0 (average)	163	+16	32·1	− 0·8	30	+ 3	35	+ 4	1200	+ 37	33	0
	7. ENGLAND, N.W.	4	6	3 less	151	+16	24·9	+ 1·5	33	+ 5	39	+ 5	1297	+112	36	+ 3
	8. ENGLAND, S.W.	5	4	5 less	158	+23	32·0	+ 6·0	25	−10	30	−10	1401	+ 12	40	0
	9. IRELAND, NORTH	6	5	3 less	175	+15	30·1	+ 4·3	18	− 7	22	− 7	1091	+ 42	31	+ 1
	10. IRELAND, SOUTH	4	4	3 less	165	+21	32·2	+ 5·2	26	− 5	30	− 5	1164	− 25	33	− 1
	— CHANNEL ISLANDS	6	6	2 less	168	+26	26·5	+ 5·2	22	−18	26	−19	1452	−133	43	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period varied considerably. At first it was unsettled, with occasional rain, at all except our extreme western and south-western stations. The conditions soon improved, however, over the greater part of the Kingdom, although rain continued to fall almost daily in the extreme north and north-west, and occasional falls were experienced in many parts of our western and south-western districts.

Temperature did not differ very materially from the mean, but was, as a whole, rather below it. The highest of the maxima were recorded towards the end of the week, and ranged from 71° in England S. and 69° in the Channel Islands and the Midland counties to 63° in Scotland N. and 61° in Scotland W. The lowest of the minima occurred in most places at the commencement of the week, and ranged from 33° in England N.W., 34° in England S.W. and Scotland N., and 35° in the Midland counties to 39° in the Irish districts, and to 46° in the Channel Islands.

Rainfall was less than the mean over the Kingdom generally, but just equalled the normal in Scotland W. and greatly exceeded it in Scotland N.

Bright Sunshine exceeded the normal amount in most parts of Great Britain, but was deficient over Ireland, as well as in England S. and S.W., and very deficient in the Channel Islands. The percentage of the possible duration ranged from 49 in England E. and 45 in the Midland counties to 28 in Scotland N., 26 in the Channel Islands and 22 in Ireland N.

Barometer and Wind.—During the earlier days of the period the barometer was highest in the west, while small depressions (secondary to large systems lying to the eastward of the North Sea) moved from time to time in a south-easterly direction over the United Kingdom. The winds were consequently North-Westerly in direction, and fresh or strong in force. By Wednesday pressure had become highest to the southward of the United Kingdom, and lowest in the north, and large depressions soon appeared in the latter region, moving north-eastwards to Scandinavia, and affecting at the same time our extreme northern and north-western coasts. With this change of distribution the winds shifted to the Westward and South-Westward, but continued to blow freshly or strongly generally, and occasionally attained the force of a gale in the extreme north of Ireland and Scotland.

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II.—DATA from which the SUMMARY on page 223 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches				
0. SCOTLAND, N.	Sumburgh Head	56	41	53·6	43·3	48·2	− 1·3	43	0	7	0·85	+ 0·05	*	*	*	*
	Stornoway	57	40	55·0	42·3	48·4	− 1·4	45	0	7	1·82	+ 0·82	29·8	+ 6·0	35	+ 8
	Wick	59	40	56·1	44·0	49·8	− 0·8	55	0	5	0·41	− 0·17	*	*	*	*
	Lairg Ⓢ	63	34	60·3	40·8	50·1	+ 0·9	62	3	7	1·32	+ 0·53	*	*	*	*
	Glencarron Ⓢ	56	38	54·1	43·4	48·5	− 1·1	46	0	7	5·25	+ 3·48	*	*	*	*
	Fort Augustus Ⓢ	60	37	56·6	43·0	49·5	− 2·1	53	0	6	2·91	+ 1·96	22·1	+ 4·8	26	+ 6
	Fort William Ⓢ	59	40	56·2	46·3	51·0	− 1·1	63	0	6	5·86	+ 4·15	19·7	− 2·5	23	− 2
1. SCOTLAND, E.	Nairn	63	40	59·1	43·4	50·9	− 0·4	62	0	7	0·46	− 0·17	*	*	*	*
	Aberdeen	60	41	57·1	43·6	50·0	− 1·6	56	0	3	0·33	− 0·37	31·3	+ 2·7	37	+ 4
	Braemar Ⓢ	58	38	54·0	41·8	47·6	− 0·5	40	1	4	0·25	− 0·50	30·3†	+ 5·3†	36†	+ 8†
	Ochtertyre Ⓢ	64	42	59·4	46·1	52·4	+ 1·0	73	0	5	0·58	− 0·26	*	*	*	*
	Leith	66	40	61·6	45·6	53·2	0·0	78	0	4	0·29	− 0·25	*	*	*	*
	Marchmont Ⓢ	59	39	57·4	44·3	50·5	− 0·2	60	0	4	0·39	− 0·40	31·8	+ 5·9	38	+ 8
2. ENGLAND, N.E.	Alnwick Castle	63	49	57·6	45·2	51·1	− 0·4	64	0	7	0·42	− 0·27	*	*	*	*
	Durham	64	38	59·6	44·5	51·7	− 0·6	68	0	2	0·12	− 0·49	29·6	+ 2·9	35	+ 4
	Shields	64	40	59·6	45·6	52·3	− 0·5	72	0	3	0·23	− 0·34	*	*	*	*
	Scarborough Ⓜ	65	40	58·7	46·3	52·2	− 1·6	71	0	4	0·46	− 0·19	32·0	?	38	?
	York	67	36	61·1	44·6	52·5	− 1·1	74	0	2	0·18	− 0·42	36·2	+ 8·8	43	+11
	Spurn Head	66	43	60·0	49·1	54·3	− 0·8	86	0	4	0·42	− 0·06	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	68	41	62·0	46·5	53·9	− 0·3	83	0	2	0·65	+ 0·01	39·6	+ 8·8	47	+11
	Yarmouth	66	43	60·1	47·3	53·4	− 1·9	80	0	3	0·28	− 0·40	*	*	*	*
	Geldeston	67	41	62·4	47·3	54·5	− 0·4	88	0	3	0·56	− 0·04	42·7	+ 6·7	51	+ 9
	Cambridge	68	39	63·0	45·9	54·0	− 0·8	84	0	3	0·31	− 0·21	42·3	+ 9·1	50	+11
	Rothamsted	67	37	61·6	46·7	53·8	0·0	83	0	4	0·17	− 0·48	40·5	+ 8·2	48	+10
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	69	37	63·0	45·6	53·9	+ 0·3	83	0	3	0·14	− 0·42	*	*	*	*
	Loughborough	67	36	62·3	46·0	53·8	− 0·7	83	0	5	0·44	− 0·16	*	*	*	*
	Stamford (Duddington)	67	35	62·1	46·1	53·7	− 1·1	82	0	3	0·26	− 0·43	*	*	*	*
	Cheadle Ⓜ	62	36	57·8	44·0	50·6	− 1·8	60	0	4	0·71	+ 0·02	*	*	*	*
	Shirley (near Solihull)	65	39	59·9	46·8	53·0	− 0·6	77	0	4	0·39	?	*	*	*	*
	Churchstoke Ⓜ	64	37	60·7	45·4	52·7	+ 0·6	75	0	2	0·09	− 0·59	37·7	+ 7·4	45	+10
	Hereford Ⓜ	67	36	61·8	44·5	52·7	− 1·0	75	0	3	0·23	− 0·43	*	*	*	*
	Cirencester	65	40	61·3	48·0	54·3	+ 1·5	86	0	3	0·08	− 0·64	37·8	+ 7·9	45	+10
	Oxford	66	38	61·4	47·1	53·9	− 0·7	83	0	1	0·01	− 0·63	39·0	+ 6·5	46	+ 8
5. ENGLAND, S.	London	71	37	64·3	47·0	55·2	− 0·4	92	0	4	0·11	− 0·45	30·4†	+ 2·4†	36†	+ 3†
	North Foreland	66	46	61·3	50·0	55·4	− 1·3	94	0	2	0·08	?	*	*	*	*
	Dungeness	66	38	61·7	49·7	55·4	− 1·4	94	0	4	0·16	− 0·52	*	*	*	*
	Hastings (St. Leonards)	65	39	61·6	48·3	54·6	− 1·8	88	0	4	0·35	− 0·37	32·6	− 5·3	39	− 5
	Southampton	69	39	64·4	49·0	56·3	+ 0·1	100	0	5	0·21	− 0·51	34·0	− 1·3	40	− 1
	Hurst Castle	67	42	62·9	51·4	56·9	+ 0·1	104	0	5	0·15	− 0·55	*	*	*	*
	Shaftesbury Ⓜ	63	38	60·5	46·9	53·4	− 0·2	80	0	3	0·08	− 0·75	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)												*	*	*	*
	Glasgow	58	39	56·2	45·4	50·5	− 0·4	60	0	6	1·08	+ 0·23	25·7	+ 2·7	31	+ 4
	Ardrossan	60	37	57·1	48·3	52·5	− 0·3	74	0	2	0·57	− 0·21	*	*	*	*
	Glenlee Ⓢ	60	36	57·6	43·3	50·1	− 1·5	57	0	6	0·83	− 0·35	*	*	*	*
	Gilcrux (Cumberland)	59	37	57·4	45·9	51·4	− 0·7	66	0	5	2·34	?	27·5	?	33	?
	Douglas (Isle of Man)	61	42	58·8	48·3	53·3	+ 0·5	79	0	4	0·57	− 0·23	35·5	+ 2·0	42	+ 3
7. ENGLAND, N.W.	Stonyhurst	60	37	57·4	45·6	51·2	− 1·5	64	0	5	1·77	+ 0·63	34·1	+ 4·9	41	+ 7
	Blackpool Ⓜ	62	38	59·6	50·0	54·6	+ 0·8	88	0	4	0·67	− 0·24	30·8	+ 3·6	37	+ 4
	Manchester (Prestwich)	65	33	59·6	44·7	51·8	− 1·2	69	0	3	0·35	− 0·61	29·6	?	35	?
	Liverpool Obsy. (Bidston)	63	44	59·0	50·0	54·3	− 0·3	86	0	2	0·20	− 0·61	*	*	*	*
	Llandudno Ⓜ	65	47	59·7	51·1	55·2	− 0·3	92	0	3	0·32	− 0·45	*	*	*	*
	Holyhead	60	47	57·6	50·6	53·9	− 1·5	83	0	4	0·35	− 0·41	*	*	*	*
8. ENGLAND, S.W.	Llandovery	62	34	60·3	44·0	51·8	− 1·3	69	0	5	0·88	− 0·14	*	*	*	*
	Pembroke	60	49	58·6	52·9	55·6	+ 0·3	95	0	4	0·36	− 0·47	18·9	−15·1	23	−16
	Clifton	66	42	60·7	49·4	54·8	+ 0·4	90	0	3	0·22	− 0·61	*	*	*	*
	Arlington (N. Devon)	62	42	58·7	47·3	52·7	− 1·1	75	0	7	0·92	− 0·16	*	*	*	*
	Cullompton Ⓜ	65	38	62·2	46·3	53·9	− 1·6	83	0	3	0·09	− 0·73	27·5	− 5·3	33	− 4
	Falmouth	63	46	59·1	50·6	54·7	− 1·3	89	0	6	0·47	− 0·59	24·7	−10·8	29	−12
	Plymouth	64	40	59·8	49·0	54·1	− 2·1	85	0	5	0·24	− 0·64	24·0	−11·1	29	−12
	Prawle Point	65	41	61·0	48·9	54·7	− 1·5	89	0	5	0·25	− 0·40	*	*	*	*
9. IRELAND, N.	Malin Head	60	46	55·7	48·9	52·1	− 0·9	71	0	6	0·97	?	*	*	*	*
	Londonderry	62	45	58·5	47·2	52·6	0·0	74	0	7	0·71	− 0·17	*	*	*	*
	Edenfel (Omagh)	60	41	57·9	46·6	52·0	+ 1·4	70	0	6	0·40	− 0·43	*	*	*	*
	Belmullet	59	46	58·0	48·6	53·1	− 0·5	78	0	7	0·55	− 0·49	*	*	*	*
	Markree Castle	62	41	58·5	46·7	52·3	− 0·7	72	0	7	0·31	− 0·59	14·1	− 9·8	17	−11
	Armagh	62	39	59·4	44·8	51·8	0·0	69	0	4	0·29	− 0·35	22·1	− 4·6	26	− 5
	Donaghadee	64	44	59·6	48·6	53·8	+ 0·7	83	0	4	0·20	− 0·44	*	*	*	*
	Edgeworthstown	61	40	58·4	46·4	52·1	+ 0·4	71	0	4	0·48	− 0·19	*	*	*	*
10. IRELAND, S.	Dublin	68	42	60·3	48·3	54·0	+ 0·1	84	0	3	0·24	− 0·28	31·7	− 0·5	38	0
	Parsonstown	65	40	59·6	47·6	53·3	+ 0·9	79	0	4	0·55	− 0·20	25·6	− 3·5	30	− 3
	Kilkenny	67	39	60·1	47·6	53·6	− 0·6	81	0	2	0·24	− 0·34	*	*	*	*
	Roche's Point	62	46	60·1	49·9	54·8	0·0	90	0	2	0·35	− 0·47	*	*	*	*
	Valencia	62	47	58·6	51·4	54·8	− 0·5	90	0	5	0·51	− 0·47	19·2	−11·1	23	−12
	Killarney	66	41	61·0	49·1	54·8	+ 0·7	90	0	4	0·45	?	*	*	*	*
	Foynes	64	46	58·8	50·4	54·4	+ 0·8	87	0	5	0·68	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	46	60·7	51·7	56·0	− 1·3	98	0	5	0·39	− 0·46	16·1	?	19	?
	Jersey	69	47	62·9	52·7	57·6	− 1·4	109	0	6	0·81	+ 0·01	20·8	−21·3	25	−24

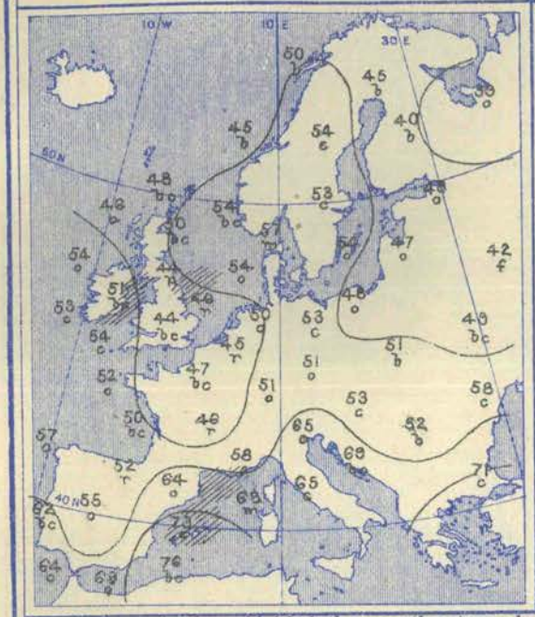
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

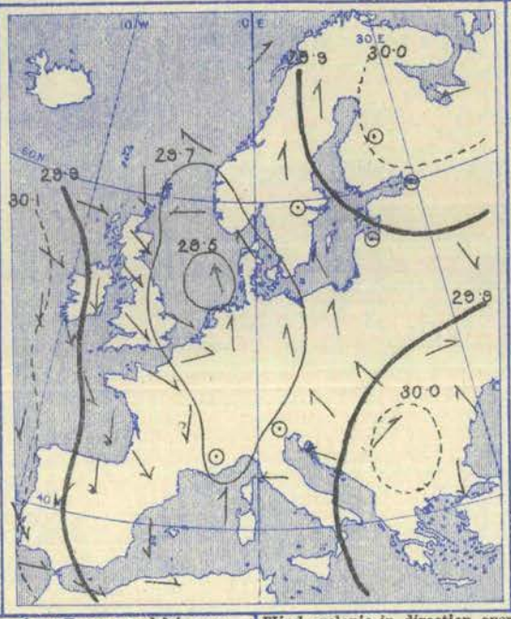
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 19th September.

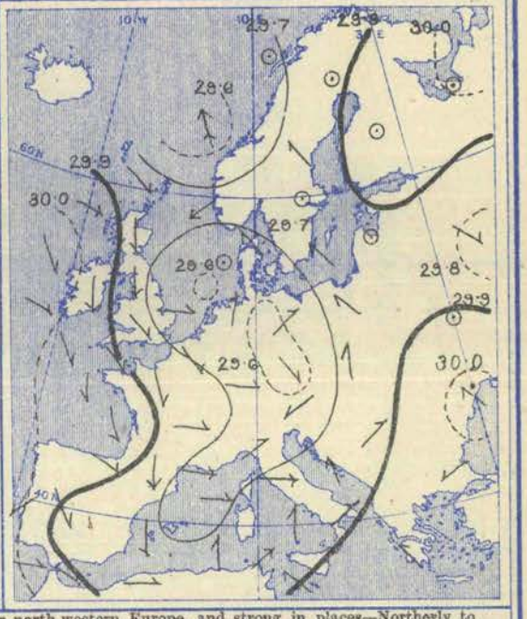
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright both over south-eastern and northern Europe, and fair over the greater part of the British Islands; squally and showery along our north-east and east coasts; dull and rainy in several parts of the Netherlands, and in the east and south of France; cloudy and unsettled over Germany. Showers falling later over the northern parts of our area, rain more generally, but not heavily, in the south and east, as well as over the south-west and south of France; heavy falls at Bilbao, Rome, Florence, Munich, and at Bodö; thunder and lightning occurring at Jersey.

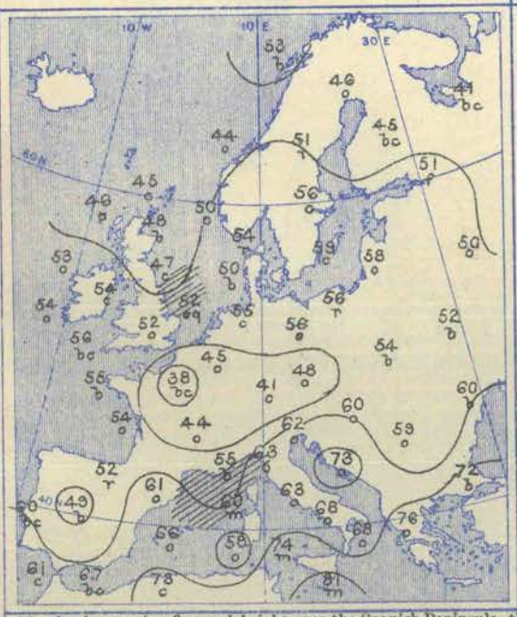
Temperature fallen decidedly over England and France, and air very raw. Morning readings highest, 76° at Algiers, and above 60° at nearly all the Mediterranean stations; above 50° on our west and south-west coasts, as well as over many parts of Germany, Denmark, and Scandinavia. Lowest, 42° to 46° over the inland and eastern parts of England, 43° to 47° over France, 45° at Brussels, 49° at Münster. Not touching 60° over the greater part of our Islands and the north of France later, but touching 63° at Berlin, 66° at Nice and Perpignan, 70° and more over Italy, 81° at Algiers, and 93° at Palermo.

Wind cyclonic in direction over north-western Europe, and strong in places—Northerly to North-Westerly over our Islands; Westerly over the east and north-east of France; South-Easterly over the Baltic and the eastern shores of the North Sea; Southerly over the northern half of Scandinavia. Very light over southern and south-eastern Europe. Increasing to a gale from South-East at Christiansund later.

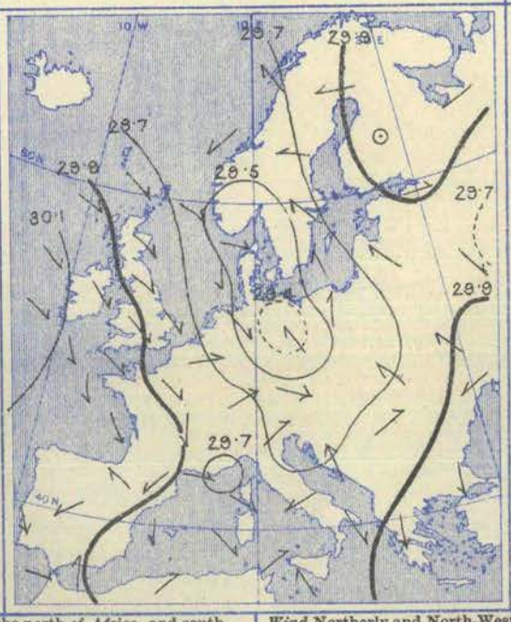
Barometer highest, 30·0 ins. and more to 29·9 ins. (1) over the Atlantic and the extreme western coasts of Ireland and Continental Europe; (2) over the north of Russia and Finland, and (3) over south-eastern Europe. Lowest, 29·5 ins. and less in a depression over the Doggerbank and its neighbourhood; gradients moderate to slight. Depression in east becoming more complex later, and a new system reaching the west of Norway in the evening.

Monday, 20th September.

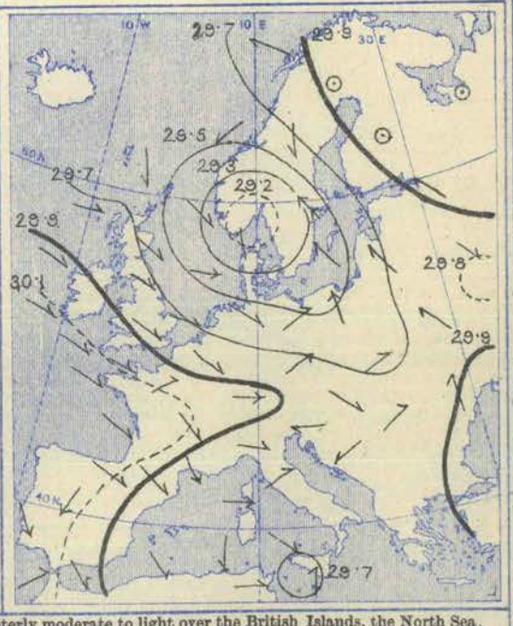
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Spanish Peninsula, the north of Africa, and south-eastern Europe, as well as over many parts of our Islands and northern Europe; dull, rainy, and very unsettled over Germany, the Baltic and Sweden, and not at all settled over north-western Europe as a whole. Heavy falls of rain later over north Germany and the southern parts of Scandinavia, smaller quantities over the north of Scotland, showers over almost the whole of the British Islands, and in some parts of France, and considerable falls at some stations on the southern side of the Mediterranean.

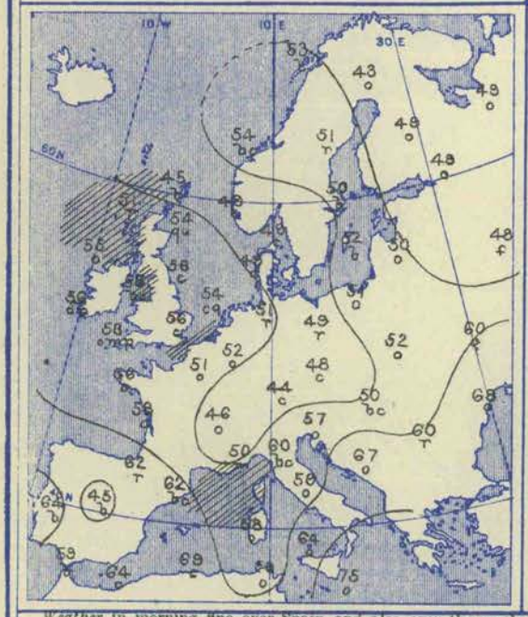
Temperature in morning highest, 81° at Malta, 76° at Patras, 73° at Algiers, 72° at Constantinople, 60° at Lisbon and Bilbao, 56° to 54° at most of our own south-western and southern stations, and 59° to 56° over north Germany and the southern parts of Sweden. Lowest, 41° at Haparanda, 45° at Kuopio and at Sumburgh Head, 49° to 46° over the northern parts of our Islands. Rising later to 66° at Leith, to 64° at Prawle Point and Hurst Castle, to 63° at Skudesnaes, and to 62° in London, to between 63° and 66° over the southern parts of France, and to 70° at Lisbon, 72° at Rome, 88° at Malta, but not exceeding 57° at Berlin, and 58° at Paris.

Wind Northerly and North-Westerly moderate to light over the British Islands, the North Sea, and the north and west of France, but Southerly to Easterly over the Baltic and northern Europe; light and very variable over the southern and south-eastern countries. Not much change in our Islands later, but blowing strongly from East-South-East at Stockholm, and from North-West at Malin Head.

Barometer highest, (1) 30·1 ins. and more over the west of Ireland and adjacent parts of the Atlantic, and exceeding 29·9 ins. over all the western parts of the British Islands and France; (2) exceeding 29·9 ins. over Finland, the Kola Peninsula, and the North Sea; (3) exceeding 30·0 ins. over the Black Sea and south of Russia. Lowest, 29·4 ins. and less in a complex system stretching northwards from Germany to the south of Norway, and below 29·7 ins. over Austria, the north of Italy and the Riviera. New depressions developing over north-western Europe later.

Tuesday, 21st September.

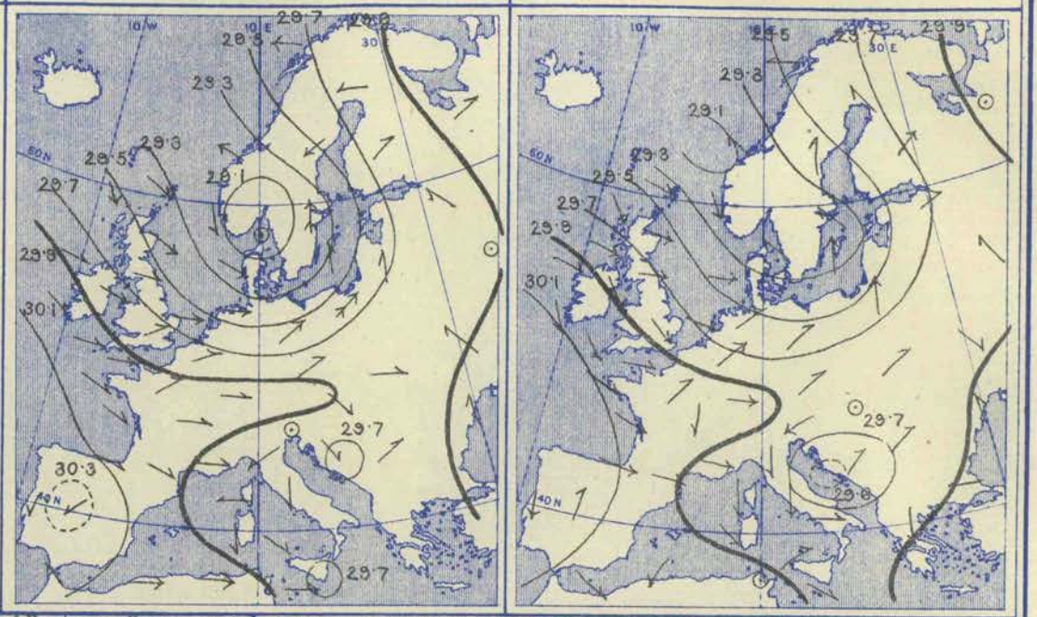
Temperature and Weather. 8 a.m.



Weather in morning fine over Spain, and also over the south of Russia, as well as at several stations in central Europe; cloudy and unsettled elsewhere, especially over the north of our Islands, the North Sea, Denmark, and Scandinavia. Rain falling later over almost the whole of north-western Europe—heavily over Sweden and at Cuxhaven; scarcely any in our Islands, but considerable quantities in the south of Italy.

Temperature risen over the United Kingdom and France, fallen over central Europe and Italy. Morning readings highest, 75° at Malta, 68° at Nicolaieff, 62° at Biarritz, and exceeding 50° over the British Islands as a whole, and in many parts of north-western Europe. Lowest, (1) 43° at Haparanda, 49° at Archangel, Kuopio, and St. Petersburg; (2) 45° at Sumburgh Head, 46° to 50° over Denmark and the southern parts of Norway; (3) 46° at Warsaw, 48° at Prague and Cracow, 49° at Vienna; (4) 44° at Munich, 46° at Belfort, Turin, and Lyons. Rising later to between 60° and 67° over England, but not touching 60° at the German stations, reaching 70° at Nice and Perpignan, 77° at Algiers, 79° at Malta and at Lisbon, 81° at Sfax and Biskra

Barometer and Wind. 8 a.m. and 6 p.m.

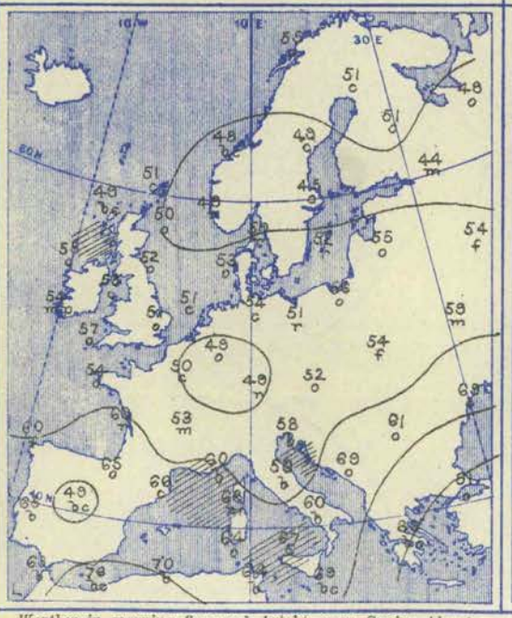


Wind very variable (1) North-Westerly strong and squally over the United Kingdom; Westerly to Southerly, strong to a gale, over Germany and the Baltic; South-Easterly to Easterly over northern Europe; (2) light to moderate in force and extremely variable in direction over the southern half of Europe and the Mediterranean—chiefly cyclonic over Sicily, Italy, and the Adriatic. Decreasing in force over the north of our Islands later, not much change elsewhere.

Barometer highest, (1) 30·31 ins. in the Azores, and varying from 30·2 ins. and more to 29·9 ins. over Spain, the greater part of France and Austria; (2) 30·0 ins. and more to 29·9 ins. over the south-eastern and eastern parts of Russia. Lowest, 29·0 ins. to 29·1 ins. in a depression covering Denmark, the Skager Rack, and the most southern parts of Norway and Sweden. Latter disturbance moving north-eastwards later, and barometer rising all over the British Islands and France.

Wednesday, 22nd September.

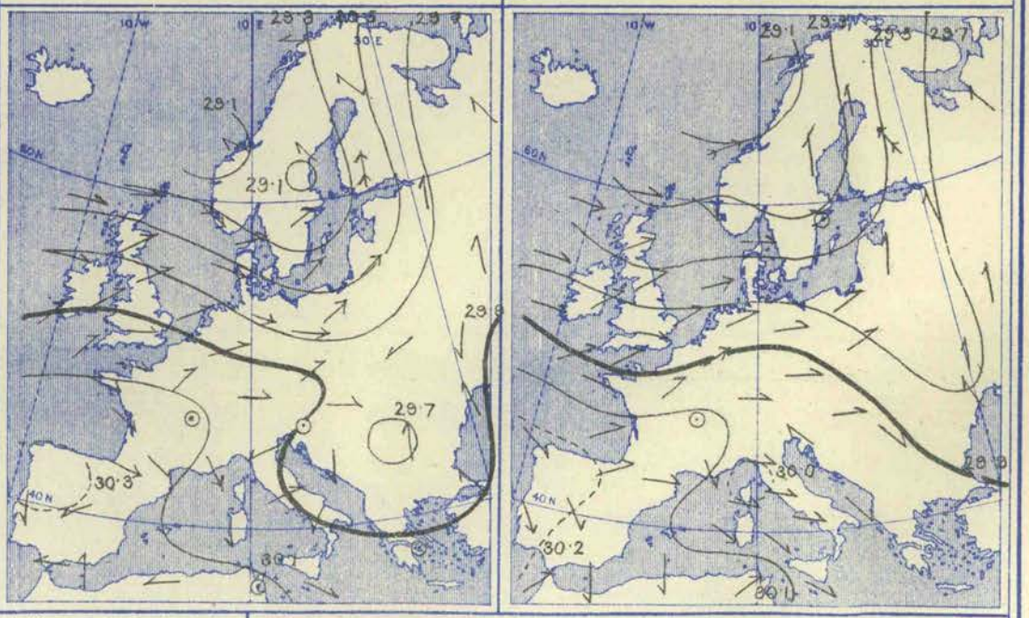
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over Spain, Algeria, and the greater part of the Mediterranean, as well as at some stations in central Europe; cloudy and changeable elsewhere, with rain in several parts of Germany, Austria, and the south of Russia, as well as at Rochefort and Valencia. Rain falling later over the greater part of our Islands and western Europe, and locally in several parts of central Europe, but weather remaining fair over the major part of England.

Temperature not changing much. Morning readings highest, 81° at Constantinople, 80° at Athens, 70° at Algiers; above 60° at many of the Mediterranean stations, at Lisbon and Biarritz; above 50° over our Islands, north Germany, Finland, and Lapland. Lowest, 42° at Karlstad, 44° at St. Petersburg, 45° at Hernösand, 49° at Skudesnaes and Stornoway. Rising later to between 55° and 60° over the United Kingdom, to 61° at Berlin and Paris, and 72° at Nice and Perpignan, 77° at Algiers, 79° at Palermo. Following night mild over Ireland and England generally

Barometer and Wind. 8 a.m. and 6 p.m.



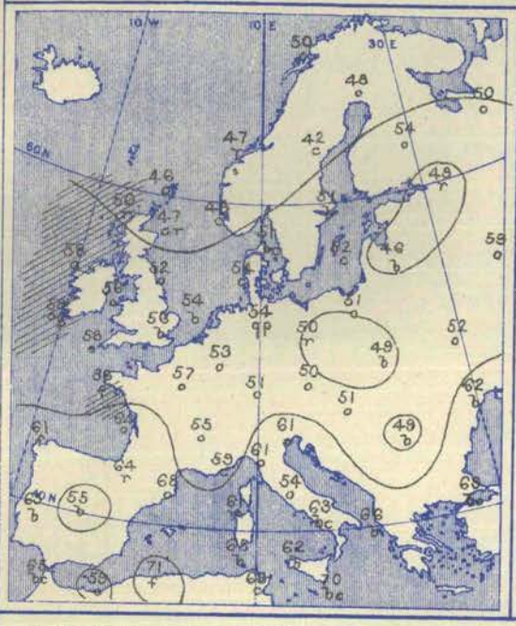
Wind (1) light to moderate in force and very variable in direction over the Mediterranean and the southern and eastern parts of Europe; (2) cyclonic in the north-west and north—mainly Westerly and moderate over the British Islands; North-Westerly, strong to a gale, on the eastern shores of the North Sea, but South-Westerly to South-Easterly, strong to a gale, on the eastern shores of the Baltic; Easterly and moderate in the north-west of Norway. Very little change over our Islands later, but a severe tornado experienced at Sava, near Brindisi.

Barometer in morning highest, (1) 30·31 ins. at Corunna, and ranging from 30·3 ins. to 30·0 ins. over Spain, the Bay of Biscay, and France; (2) 29·9 ins. and more over the south-east and north-east of Russia. Lowest, 29·1 ins. and less to 29·2 ins. in a complex disturbance over Norway and Sweden. Norwegian disturbance filling up during day, but barometer falling over the United Kingdom.

Thursday, 23rd September.

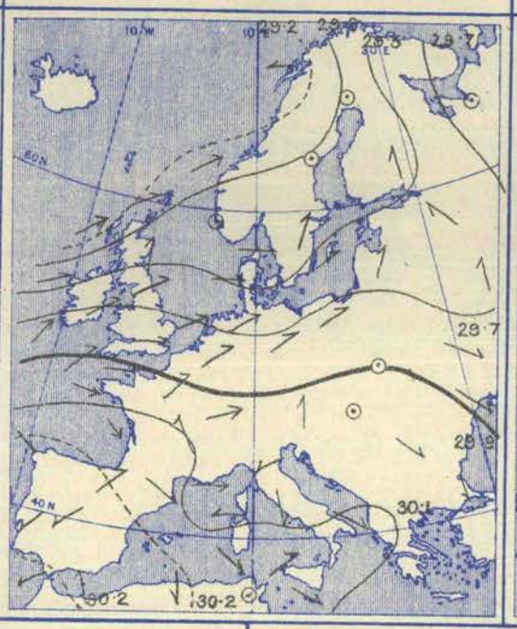
Temperature and Weather.

8 a.m.

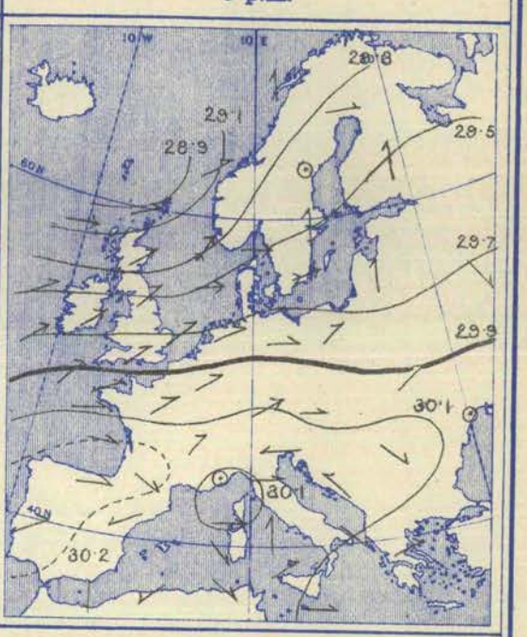


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in the extreme south-west and south-east of Europe, as well as at some of the Baltic stations and over the eastern part of England; cloudy elsewhere, with rain over many parts of the Continent, and in the north and north-west of our Islands. Rain falling later over the northern and western districts as a whole, as well as in the west and north of France, and many parts of Germany.
Temperature rising over western Europe generally. Morning readings highest, 71° at Algiers, 70° at Malta, 68° at Barcelona, 66° at Brindisi, 58° at several of our own south-western stations, 59° at Moscow. Lowest, 42° at Hernösand, 47° at Christiansund, 48° at Karlstad, 46° at Sumburgh Head, 47° at Aberdeen. Rising later to between 65° and 69° over many parts of England, 71° at Paris, 72° at Nice and Biarritz, 78° at Perpignan, 79° at Brindisi, 81° at Palermo and Lisbon.

Wind light and very variable over all the southern and south-eastern countries; Westerly to North-Westerly over nearly all the northern districts, and backing towards South in the west of Ireland. Increasing to a gale later over all the western and northern parts of the United Kingdom, the direction being South-Westerly and Westerly—Gale very strong at Malin Head; wind remaining light over the southern parts of Europe.
Barometer highest, 30·2 ins. and more over the Spanish Peninsula and exceeding 29·9 ins. over France, Germany, and southern Europe generally. Lowest, below 29·2 ins. over the Hebrides, and apparently still lower over the adjacent parts of the Atlantic. Falling to 28·9 ins. in the Shetland Islands later, as a well-marked depression moved north-eastwards past our northern coast towards Norway.

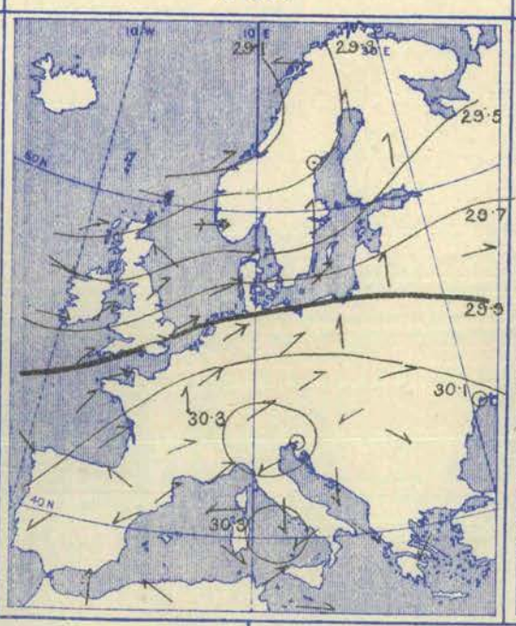
Friday, 24th September.

Temperature and Weather.

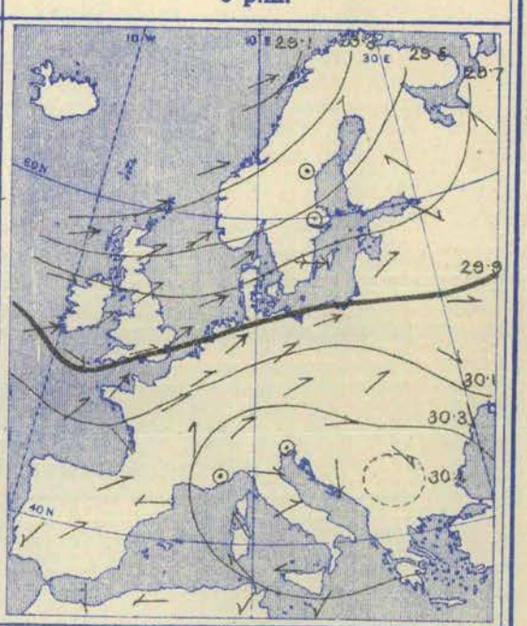
8 a.m.

Barometer and Wind.

8 a.m.



6 p.m.

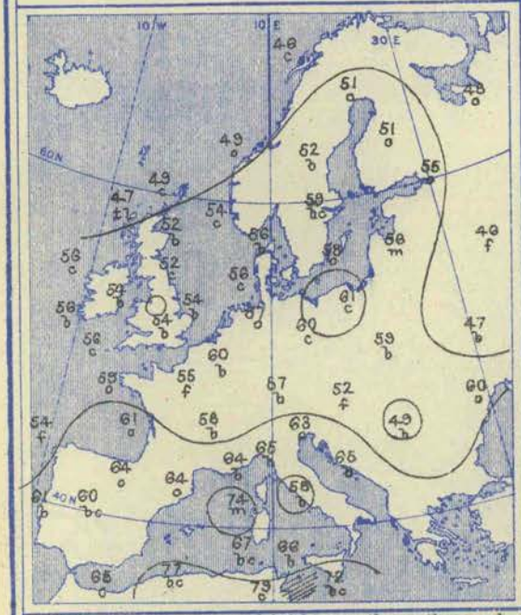


Weather in morning fine and bright over all the southern countries of Europe, but still changeable and unsettled in the north and north-west, with rain in many places. Showers falling later in almost all parts of the British Islands and Scandinavia, but conditions remaining fine over Spain, France, and Germany—excepting a heavy local fall at Prague.
Temperature risen except over Russia. Morning readings highest, 73° at Algiers, 72° at Brindisi, 70° at Malta and Athens, 62° at Rochefort, and 62° to 60° over the eastern and southern counties of England. Lowest, 46° at Bodö, 48° at Haparanda, Moscow and Stornoway, 49° at Stockholm, 51° at Wick. Rising later to between 65° and 68° over the greater part of England, to 68° at Berlin, 71° at Paris and Belfort, 74° at Lyons, 76° at Perpignan, 77° at Rome, 81° at Cagliari, and 86° at Sfax.

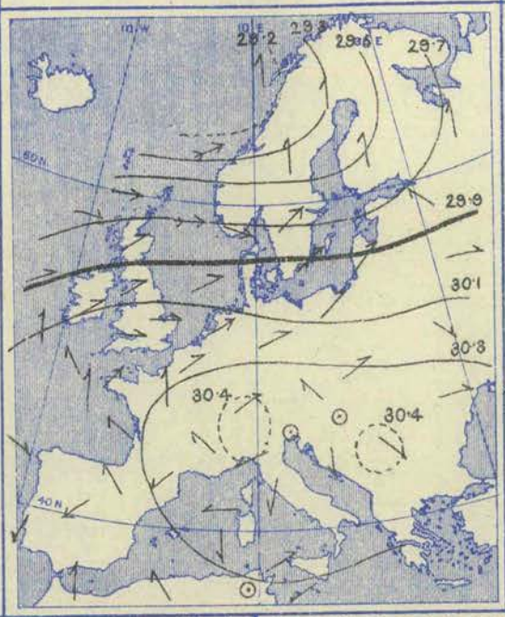
Wind light and anticyclonic over the Mediterranean and the southern half of Continental Europe; Westerly to South-Westerly (cyclonic) over the southern parts of Scandinavia, but Easterly moderate at Bodö; South-Westerly and Westerly over the British Islands, moderate to strong in force. Decreasing in force over our Islands later, and becoming more Westerly in direction.
Barometer highest, 30·3 ins. and more to 30·0 ins. in a large, but rather complex anticyclone covering the Mediterranean and the southern half of Europe. Lowest, 29·1 ins. off the north-western coast of Norway; shallow secondary disturbances prevailing over the British Islands. Rising over our Islands and the west of Norway all day.

Saturday, 25th September.

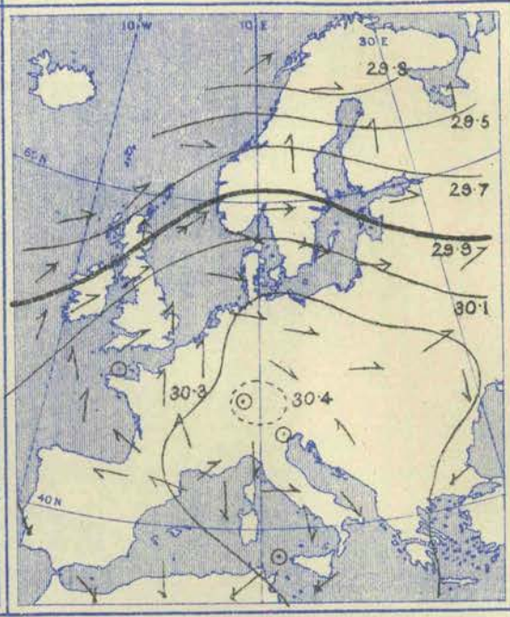
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the southern and most of the western countries of Europe, as well as at the Swedish stations; cloudy and unsettled on the Norwegian coasts and in the Hebrides, with rain and lightning at Stornoway. Rain falling later over Lapland, the north-west of Norway, and the northern and north-western parts of our Islands as a whole—heavily at Stornoway and Bodö, and small quantities locally over the south-west and south of England and at Cape Gris Nez. Weather continuing very fine over France and Germany as a whole.

Temperature fallen several degrees over England and Ireland. Morning readings highest, 77° at Algiers, 73° at Tunis, 72° at Malta; exceeding 60° at a few stations in the southern parts both of Europe and the British Islands, as well as in north Germany, 59° at Stockholm and Swinemünde, 58° at the Helder. Lowest, 46° at Moscow and Haparanda, 47° at Ulesborg and Stornoway, 49° at Sumburgh Head and Loughborough. Rising later to between 64° and 69° in many parts of England, touching 71° in London, 72° at Paris, 76° at Lyons, 81° at Biarritz

Wind calm or nearly so over the southern and some of the central parts of Europe; South-Westerly to Westerly over the northern and north-western countries, and blowing a gale over the greater part of Scandinavia, a moderate breeze on our northern and western coasts, and a light breeze over England. A fresh Southerly breeze reported locally at Havre and Jersey. Blowing a moderate gale on several parts of our north-western coasts later, but gale over Scandinavia moderating.

Barometer in morning highest, 30·42 ins. at Munich and exceeding 30·0 ins. all over the southern half of Europe, including the greater part of England and the south-east of Ireland. Lowest, 29·2 ins. and less in a depression off the north-west of Norway—gradients moderate to steep over the British Islands, Norway, and Sweden. New depression skirting the extreme north-west of Scotland later, that off the north-west of Norway disappearing.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus; ⟶⟶ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week pressure was high over the Atlantic, and also over northern and south-eastern Europe—the maximum readings in each case exceeding 20·0 ins.—while it was low in a complex depression lying over the North Sea and western Germany. The weather over our Islands and their neighbourhood was cold and inclement with frequent falls of cold rain, while over France, Germany, and the eastern shores of the North Sea it was milder, but not settled. The cold weather soon spread to France and western Germany, but on Wednesday a decided change set in.

The northern and south-eastern high pressure areas gave way while that in the west spread eastwards over southern Europe and the Mediterranean, where it increased in intensity and subsequently extended northwards to Germany and the southern parts both of the British Islands and the North Sea. Temperature consequently rose all over the United Kingdom as winds from West and South-West displaced the Northerly breezes which had previously existed, and occasionally blew hard at several of the northern and north-western stations.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 224.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	27·1	+ 3·0	32	+ 4	EASTBOURNE	33·7	- 4·1	40	- 4
OSWALDKIRK (Yorkshire)	30·3	+ 3·4	36	+ 5	VENTNOR	34·7	?	41	?
WORKSOP	35·5	+ 7·9	42	+10	SOUTHPORT	31·4	?	37	?
THURCASTON (Leicestershire)	39·2	+11·4	47	+15	COLWYN BAY	36·8	?	44	?
MARGATE	31·2	- 1·8	37	0	NEWQUAY				
WESTBOURNE (Sussex)	36·7*	0·0	44*	0	TORQUAY	31·5*	- 5·3	38*	- 4
BRIGHTON	33·4	- 3·9	40	- 3	GUERNSEY	27·9*	-13·1	33*	-14

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV No. 39.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 2ND, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 230.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	34	57·1	45·0	50·8	2 above	62	+ 3	0	- 2	1846	+156	622	- 5
	1. SCOTLAND, EAST	67	37	58·7	44·5	51·3	2 above	65	- 1	0	- 2	2059	+ 5	670	+ 17
	2. ENGLAND, N.E.	67	36	60·2	46·1	52·8	1 above	76	- 5	0	0	2275	+ 73	471	- 78
	3. ENGLAND, EAST	70	42	63·0	48·5	55·4	2 above	94	+ 5	0	0	2707	+162	493	-124
	4. MIDLAND COUNTIES	70	38	62·2	45·5	53·4	2 above	80	- 7	0	- 1	2636	+ 96	504	-116
	5. ENGLAND, SOUTH	71	45	63·7	51·5	57·3	3 above	107	+10	0	0	2980	+222	297	-180
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	63	37	59·0	46·8	52·6	2 above	74	+ 2	0	0	2213	+ 70	445	- 17
	7. ENGLAND, N.W.	66	38	60·3	47·7	53·7	1 above	82	- 1	0	0	2471	+128	367	- 92
	8. ENGLAND, S.W.	70	34	62·0	49·6	55·5	2 above	95	+ 4	0	0	2799	+222	223	-138
	9. IRELAND, NORTH	65	41	58·9	48·3	53·4	2 above	80	+11	0	0	2277	+ 16	403	+ 8
	10. IRELAND, SOUTH	64	40	60·6	49·0	54·5	2 above	88	+ 8	0	- 1	2682	+126	242	- 58
	—CHANNEL ISLANDS	70	52	63·0	55·3	58·9	2 above	118	+12	0	0	3218	+325	68	- 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 230.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	10	2 less	172	- 4	31·4	- 2·7	18	- 2	22	- 2	1086	+158	30	+ 5
	1. SCOTLAND, EAST	4	3	4 less	157	+13	22·1	- 0·9	21	- 3	26	- 3	1183	+ 77	33	+ 3
	2. ENGLAND, N.E.	3	7	1 more	140	+ 6	18·8	0·0	24	- 2	30	- 2	1271	+166	35	+ 5
	3. ENGLAND, EAST	4	14	7 more	137	+ 7	18·8	+ 0·2	21	-10	26	-11	1393	+ 82	39	+ 2
	4. MIDLAND COUNTIES	3	10	3 more	136	+ 8	21·5	+ 1·1	24	- 3	29	- 4	1323	+138	37	+ 4
	5. ENGLAND, SOUTH	4	7	1 less	130	+ 7	21·3	+ 1·0	29	- 4	36	- 5	1439	+ 60	40	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	6	5 less	167	+16	33·0*	- 1·0	26	- 1	32	0	1226	+ 36	33	+ 1
	7. ENGLAND, N.W.	4	10	1 more	155	+16	25·9	+ 1·6	26	- 2	32	- 2	1323	+110	36	+ 3
	8. ENGLAND, S.W.	4	11	1 more	162	+23	33·1	+ 6·2	32	0	40	0	1432*	+ 11	40	0
	9. IRELAND, NORTH	6	5	4 less	181	+17	30·6	+ 3·9	24	0	29	0	1115	+ 42	31	+ 1
	10. IRELAND, SOUTH	5	6	2 less	170	+22	32·8	+ 5·0	25	- 4	31	- 4	1189	- 29	33	- 1
	— CHANNEL ISLANDS	4	10	1 more	172	+25	27·5	+ 5·3	29	-12	35	-14	1481	-144	42	- 4

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was fine over the greater part of the Kingdom during the early days of the week, rain falling in the extreme north-west and west only. By Wednesday, however, it had become unsettled very generally, and during the evening or night a violent thunderstorm, accompanied by extremely heavy rain, was experienced over the south and east of England, and the south midland counties. The weather subsequently continued in a rather changeable condition generally.

Temperature was above the mean, the excess ranging from 1° in England N.E. and N.W. to 3° in England S. The highest of the maxima were recorded either on Sept. 26th or 29th, and ranged from 71° in England S. (London) to 64° in Scotland N. and Ireland S., and to 63° in Scotland W. The lowest of the minima were registered on very irregular dates, and ranged from 34° in Scotland N. and England S.W. to 45° in England S., and to 52° in the Channel Islands.

Rainfall was less than the mean over Ireland and Scotland, as well as over England S. In all the other English districts and in the Channel Islands there was an excess, that in England E. being large. As much as 2·12 ins. fell at Hillington during the thunderstorm of Wednesday, and more than an inch in many other localities.

Bright Sunshine was deficient in nearly all districts, and considerably so in England E. and the Channel Islands. The percentage of the possible duration ranged from 40 in England S.W., 36 in England S., and 35 in the Channel Islands, to 22 in Scotland N.

Barometer and Wind.—During the earlier part of the period the barometer was highest in the south-east, and depressions of little depth advanced to our western and north-western coasts, the winds consequently being moderate to fresh from the South-Westward generally, but light from the Eastward or North-Eastward in the south-east. After Tuesday, however, a large shallow area of low-pressure travelled directly over the Kingdom from the westward, while the high-pressure area in the south-east moved away north-eastward. This system was followed by an anticyclone from the Atlantic, and Northerly or North-Westerly winds, but by the end of the week the barometer was again falling in the north-west, and the wind in that region had returned to the Southward.

*This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 229 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	56	40	53·7	45·7	49·5	+ 1·1	53	0	4	1·34	+ 0·50	*	*	*	*
	Stornoway	59	40	55·1	44·9	49·7	+ 1·2	54	0	5	0·60	- 0·44	12·5	-10·2	16	-11
	Wick	61	36	57·3	46·1	51·4	+ 2·1	66	0	6	1·77	+ 1·19	*	*	*	*
	Lairg Ꞩ	62	34	58·6	43·8	50·8	+ 3·3	62	0	4	0·44	- 0·40	*	*	*	*
	Glencarron Ꞩ	64	42	57·8	44·7	50·9	+ 2·8	62	0	5	0·94	- 0·90	*	*	*	*
	Fort Augustus Ꞩ	64	40	59·3	44·1	51·3	+ 1·1	65	0	4	0·56	- 0·42	18·6	+ 1·8	23	+ 3
	Fort William Ꞩ	64	42	58·2	45·7	51·7	+ 1·1	68	0	4	1·01	- 0·75	21·7	0·0	27	0
1. SCOTLAND, E.	Nairn	67	37	60·0	45·3	52·3	+ 2·5	72	0	5	0·45	- 0·19	*	*	*	*
	Aberdeen	61	38	57·7	46·4	51·8	+ 1·6	69	0	4	0·38	- 0·35	20·3	- 5·3	25	- 7
	Braemar Ꞩ	60	38	55·0	42·1	48·2	+ 1·6	43	0	4	0·36	- 0·38	16·7†	- 7·2†	21†	- 7†
	Ochtertyre Ꞩ										*	*	*	*	*	*
	Leith	67	41	62·4	46·3	54·0	+ 2·3	84	0	2	0·11	- 0·43	*	*	*	*
	Marchmont Ꞩ	62	39	58·3	42·6	50·1	+ 0·8	57	0	4	0·26	- 0·54	19·8	- 3·9	24	- 5
2. ENGLAND, N.E.	Alnwick Castle	63	39§	59·6	44·3	51·6	+ 1·4	67	0	2	0·11	- 0·62	*	*	*	*
	Durham	64	36	60·2	43·8	51·6	+ 0·9	67	0	3	0·53	- 0·12	26·0	+ 1·8	32	+ 2
	Shields	64	41	59·3	46·6	52·7	+ 1·2	75	0	3	0·51	- 0·07	*	*	*	*
	Scarborough Ꞩ	64	44	59·1	47·3	52·9	+ 0·6	76	0	3	0·90	+ 0·22	25·4	?	31	?
	York	67	40	62·0	42·7	51·9	- 0·1	69	0	3	1·36	+ 0·75	20·0	- 6·0	25	- 6
	Spurn Head	65	50	60·9	51·6	56·0	+ 2·2	98	0	4	0·80	+ 0·29	*	*	*	*
3. ENGLAND, E.	Hillington Ꞩ	68	42	62·5	48·4	55·1	+ 2·5	92	0	4	2·46	+ 1·80	15·2	-13·6	19	-16
	Yarmouth	67	46	60·7	50·7	55·3	+ 1·5	93	0	4	0·90	+ 0·20	*	*	*	*
	Geldeston	70	42	64·1	47·9	55·6	+ 2·2	95	0	5	0·95	+ 0·32	24·7	- 9·1	30	-11
	Cambridge	70	44	65·0	47·9	56·0	+ 2·9	98	0	4	1·80	+ 1·26	23·2	- 7·4	29	- 8
	Rothamsted	67	42	62·7	47·8	54·9	+ 2·5	90	0	3	0·64	- 0·05	20·7	- 9·3	25	-11
4. MIDLAND COUNTIES	Harrogate Ꞩ															
	Bawtry (Hesley Hall)	67	38	61·9	40·3	50·6	- 1·1	67	5	3	0·68	+ 0·08	*	*	*	*
	Loughborough	70	39	63·4	44·6	53·6	+ 1·0	81	0	3	0·75	+ 0·13	*	*	*	*
	Stamford (Duddington)	68	41	63·1	46·3	54·3	+ 1·1	86	0	4	1·25	+ 0·53	*	*	*	*
	Cheadle Ꞩ	64	41	60·1	45·6	52·5	+ 1·7	74	0	3	0·88	+ 0·20	*	*	*	*
	Shirley (near Solihull)	67	41	61·9	45·7	53·4	+ 1·8	80	0	4	1·01	?	*	*	*	*
	Churchstoke Ꞩ	67	41	61·9	45·0	53·0	+ 2·6	77	0	4	0·72	+ 0·01	36·1	+ 8·8	45	+12
	Hereford Ꞩ	?	42	?	46·2	?	?	?	?	3	1·29	+ 0·61	*	*	*	*
	Cirencester	65	42	62·0	47·6	54·5	+ 3·2	88	0	3	0·63	- 0·11	25·3	- 1·6	31	- 2
	Oxford	68	43	63·6	48·4	55·6	+ 2·7	95	0	3	1·36	+ 0·69	19·0	-10·8	23	-13
5. ENGLAND, S.	London	71	45	63·7	49·1	56·1	+ 2·5	99	0	3	1·22	+ 0·62	7·4†	-17·1†	9†	-22†
	North Foreland	70	49	61·9	53·7	57·6	+ 2·5	109	0	4	0·47	?	*	*	*	*
	Dungeness	66	47	62·6	53·3	57·7	+ 2·5	110	0	3	0·37	- 0·36	*	*	*	*
	Hastings (St. Leonards)	68	50	64·7	53·0	58·6	+ 3·8	116	0	4	0·65	- 0·10	34·0	- 1·6	42	- 1
	Southampton	68	45	65·6	50·6	57·7	+ 3·1	110	0	4	0·62	- 0·14	23·4	- 8·3	29	-10
	Hurst Castle	68	45	64·6	51·1	57·5	+ 2·4	109	0	5	0·48	- 0·28	*	*	*	*
	Shaftesbury Ꞩ	67	45	62·9	49·9	56·1	+ 4·2	99	0	4	0·83	- 0·05	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	42	58·2	45·7	51·7	+ 1·4	68	0	5	0·67	- 1·11	*	*	*	*
	Glasgow	62	40	58·3	47·1	52·4	+ 3·0	73	0	4	0·49	- 0·36	17·6	- 3·0	22	- 4
	Ardrossan	61	42	58·1	48·3	53·0	+ 1·2	77	0	3	0·94	+ 0·16	*	*	*	*
	Glenlee Ꞩ	62	37	59·4	45·3	52·0	+ 1·8	70	0	4	0·37	- 0·85	*	*	*	*
	Gilcrux (Cumberland)	62	40	59·7	47·6	53·4	+ 2·6	80	0	6	0·53	?	25·8	?	32	?
	Douglas (Isle of Man)	63	40	60·3	46·7	53·2	+ 1·6	78	0	2	0·41	- 0·40	33·1	+ 1·2	41	+ 2
7. ENGLAND, N.W.	Stonyhurst	61	41	59·3	45·2	51·9	+ 1·2	69	0	4	1·18	+ 0·04	26·0	- 1·6	32	- 1
	Blackpool Ꞩ	66	38	61·9	46·5	53·8	+ 1·3	83	0	4	0·62	- 0·33	23·9	- 2·6	30	- 2
	Manchester (Prestwich)	66	39	60·6	44·3	52·1	+ 0·7	71	0	3	1·44	+ 0·46	20·4	?	25	?
	Liverpool Obsy. (Bidston)	63	47	59·7	49·4	54·3	+ 1·5	86	0	4	1·08	+ 0·23	*	*	*	*
	Llandudno Ꞩ	63	45	60·6	49·6	54·8	+ 1·2	90	0	5	0·96	+ 0·15	31·7	+ 6·4	39	+ 8
	Holyhead	62	49	59·4	50·9	55·0	+ 0·8	91	0	4	0·53	- 0·28	*	*	*	*
8. ENGLAND, S.W.	Llandovery	70	34	64·4	44·4	53·9	+ 2·9	83	0	5	1·05	- 0·11	*	*	*	*
	Pembroke	62	50	59·3	53·4	56·2	+ 1·9	99	0	3	1·23	+ 0·35	38·6	+ 7·5	48	+11
	Clifton	70	48	62·6	51·4	56·7	+ 4·1	103	0	3	1·08	+ 0·23	*	*	*	*
	Arlington (N. Devon)	66	46	61·1	50·3	55·4	+ 3·0	94	0	7	2·52	+ 1·34	*	*	*	*
	Cullompton Ꞩ	68	41	64·3	46·8	55·1	+ 1·5	92	0	4	0·77	- 0·11	32·3	+ 2·8	40	+ 5
	Falmouth	63	48	60·4	51·1	55·5	+ 0·7	95	0	4	0·92	- 0·20	30·2	- 2·8	37	- 2
	Plymouth	63	43	61·5	49·2	55·1	+ 0·3	92	0	4	0·67	- 0·25	28·7	- 3·3	35	- 4
	Prawle Point	65	47	62·0	50·4	55·9	+ 1·0	97	0	3	0·44	- 0·28	*	*	*	*
9. IRELAND, N.	Malin Head	62	49	57·4	49·9	53·5	+ 1·8	81	0	6	0·67	?	*	*	*	*
	Londonderry	63	45	59·4	48·1	53·5	+ 2·1	81	0	7	0·34	- 0·57	*	*	*	*
	Edenfel (Omagh)	62	41	58·4	47·1	52·5	+ 3·4	74	0	6	0·31	- 0·54	*	*	*	*
	Belmullet	65	50	59·1	51·4	55·1	+ 3·0	92	0	6	0·73	- 0·36	*	*	*	*
	Markree Castle	63	45	60·1	47·0	53·2	+ 2·8	78	0	5	0·56	- 0·36	23·0	+ 0·4	28	+ 1
	Armagh	63	45	59·1	47·1	52·8	+ 2·4	76	0	4	0·30	- 0·34	24·2	- 1·8	30	- 1
	Donaghadee	63	44	58·9	47·4	52·9	+ 1·1	76	0	5	0·30	- 0·34	*	*	*	*
	Edgeworthstown										*	*	*	*	*	*
10. IRELAND, S.	Dublin	64	45	61·4	49·3	55·1	+ 2·4	92	0	3	0·45	- 0·10	25·4	- 5·4	31	- 6
	Parsonstown	64	42	60·6	47·7	53·8	+ 3·2	83	0	4	0·26	- 0·50	25·5	- 2·5	31	- 2
	Kilkenny	64	43	61·1	47·0	53·7	+ 1·2	82	0	4	0·37	- 0·21	*	*	*	*
	Roche's Point	64	48	61·3	51·6	56·2	+ 2·6	99	0	5	0·08	- 0·74	*	*	*	*
	Valencia	63	49	59·7	51·4	55·4	+ 1·2	94	0	7	1·17	+ 0·17	24·7	- 4·0	30	- 5
	Killarney	62	40	59·8	47·1	53·2	+ 0·6	78	0	5	0·74	?	*	*	*	*
	Foynes	? 63	? 44	? 60·8	? 48·8	? 54·5	? + 2·4	? 88	0	6	0·75	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	52	60·6	53·9	57·1	+ 0·9	106	0	4	1·50	+ 0·60	34·4	?	42	?
	Jersey	70	53	65·3	56·6	60·7	+ 3·1	131	0	4	0·39	- 0·51	30·8	- 7·2	38	- 9

Stations marked Ꞃ are in connection with the Royal Meteorological Society, and those marked Ꞩ with the Scottish Meteorological Society.

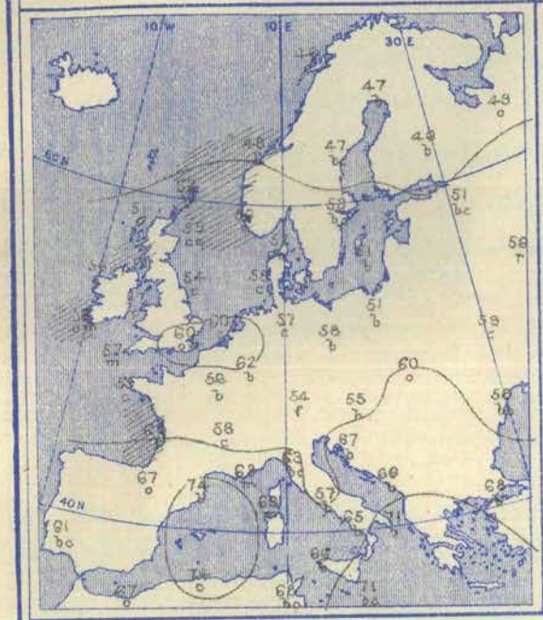
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

§ Erratum :—The corresponding value in last week's Report should read "41."

Sunday, 26th September.

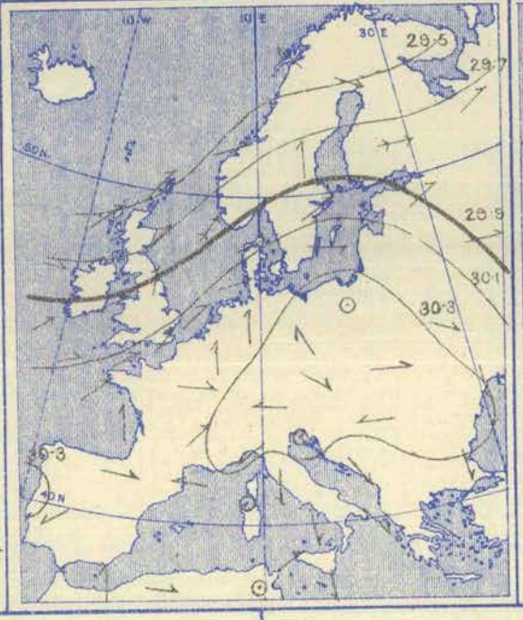
Temperature and Weather. 8 a.m.



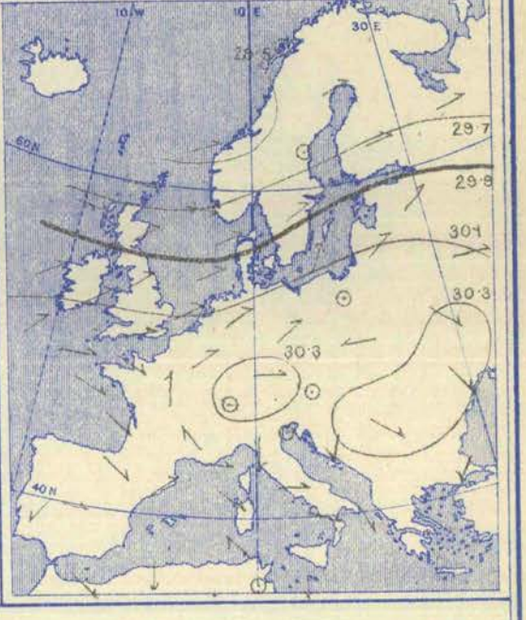
Weather in morning fine and bright both over southern and northern Europe, dull or foggy at most of the central stations and over the east of England, dull and rainy in the north-west of Norway and the extreme northern and north-western parts of our Islands. Rain falling later in all of the last-named districts, heavy dew at Scilly and the North Foreland, but weather over Germany, France, and the east of England fine as a whole.

Temperature in morning highest, 74° at Barcelona and Algiers, 71° at Malta and Brindisi, 67° at Trieste, and above 60° at most of the Adriatic, Mediterranean, and Spanish stations, 62° at Brussels, and 61° to 60° over the south-eastern counties of England, air very close in last-named districts. Lowest, 46° at Kuopio and Bodö, 49° at Christiansund and Archangel, 51° at St. Petersburg, Hangö, and Stornoway. Rising later to between 63° and 70° over many parts of Ireland and England, to 72° at Berlin, 78° at Paris, to 73° in the south of France, 77° at Algiers, 81° at Cagliari, 86° at Sfax, 93° at Aumale.

Barometer and Wind. 8 a.m.



6 p.m.

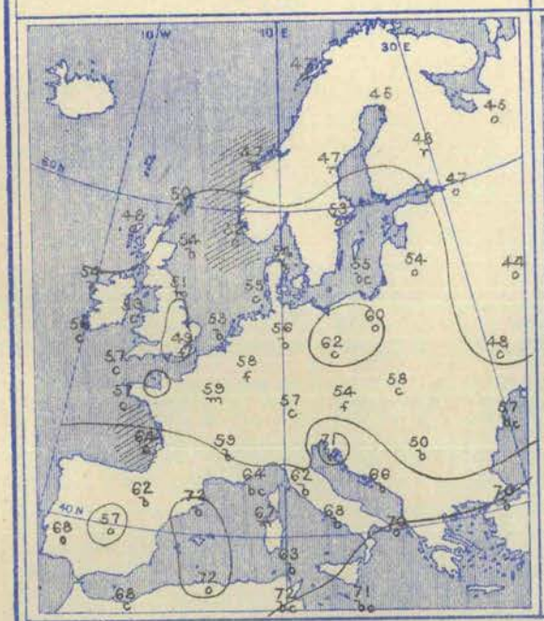


Wind light and anticyclonic over the south-western, central, and eastern parts of Europe; cyclonic in the north-west and north—South-Westerly to Southerly strong to light over our Islands; South-Westerly to South-Easterly, moderate to a gale, over Scandinavia; Westerly, strong to a gale, over Finland. Becoming more Westerly in the north of our Islands later. No decided change elsewhere.

Barometer highest, 30·3 ins. and more to 30·1 ins. in an anticyclonic area covering central and southern Europe, the south of our Islands, with Denmark and the Baltic. Lowest, 29·5 ins. and less over the Shetland Islands, Lapland, and the neighbouring parts of the Atlantic. Rising decidedly over our Islands later, and anticyclone spreading out westwards and northwards.

Monday, 27th September.

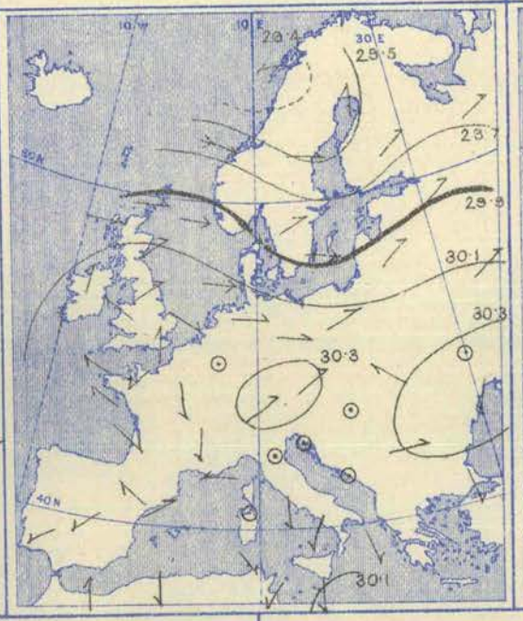
Temperature and Weather. 8 a.m.



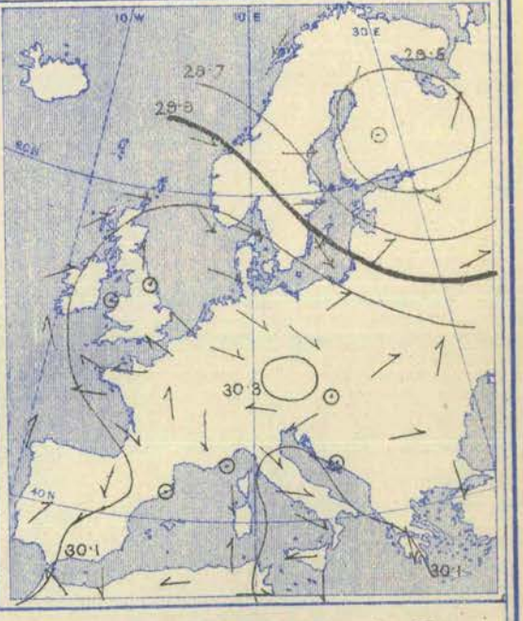
Weather in morning fine over all the southern parts of Europe and the greater part of the British Islands, but foggy or hazy at many of the stations; dull and unsettled over northern Europe, with rain at Christiansund, Hernösand, Helsingfors, and Kuopio. Considerable rain later in the north-west of Norway, and small quantities at Sumburgh Head and some of our western and south-western stations. Remaining fine over France and England.

Temperature fallen considerably over the British Isles, as well as over Russia. Morning readings highest, 72° at Barcelona and Algiers, 70° at Brindisi and Constantinople, 71° at Trieste; above 60° over the southern parts of France, 64° at Jersey, 58° at Prawle Point and Pembroke, 62° at Berlin, 60° at Neufahrwasser. Lowest, 44° at Kharkov and Moscow, 45° at Archangel and Uleaborg, 47° in the north-west of Norway, 48° at Stornoway, 45° to 49° over many of the inland parts of England. Rising later to between 60° and 65° over the greater part of our Islands, but touching 69° at Loughborough, 70° at Cambridge, 68° at Berlin, 69° at Paris, and 75° to 77° over the southern parts of France, to 86° at Sfax, and 93° at Biskra.

Barometer and Wind. 8 a.m.



6 p.m.

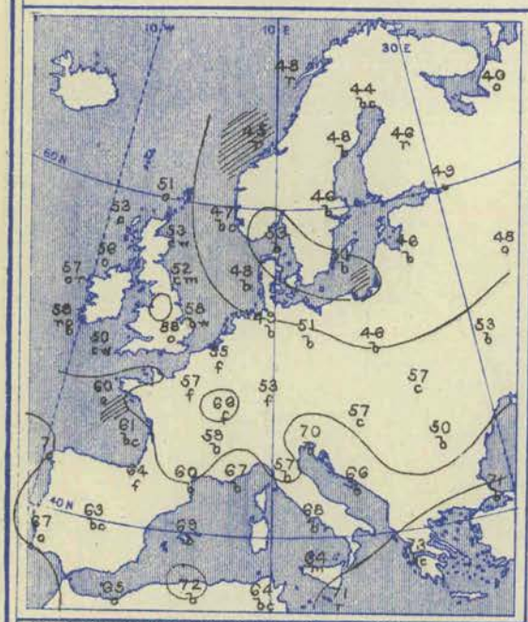


Wind very light and anticyclonic over the western, central, and eastern countries of Europe; strong and cyclonic from the Westward and Southward over Scandinavia and the Baltic, but Easterly and light over Lapland. No decided change later beyond a decrease in the strength of the Westerly wind over the northern countries.

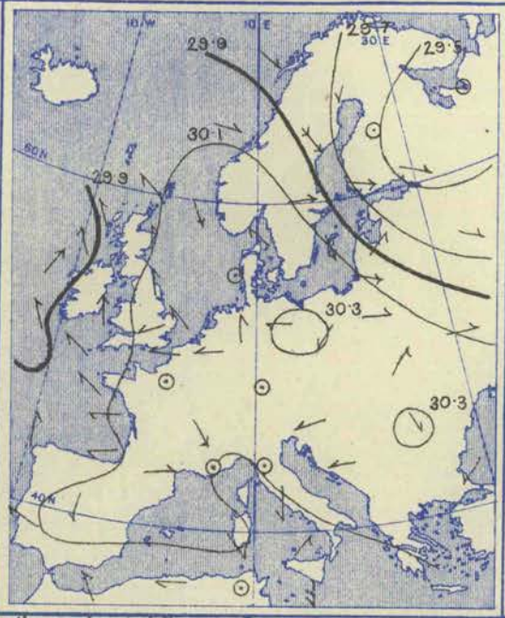
Barometer highest, 30·3 ins. and more to 30·0 ins. in a large but rather complex anticyclonic system covering all the countries lying to the southward of the north German coast, and stretching north-westward over the British Islands. Lowest, 29·4 ins. and less to 29·5 ins. and a little more in a very complex low pressure system stretching eastwards from the northern part of the Atlantic across Lapland, the northern parts of Scandinavia and Finland to the Kola Peninsula and the White Sea. Gradients rather steep over the northern countries. Falling somewhat during the day over Spain, France, and England; rising all over northern Europe.

Tuesday, 28th September.

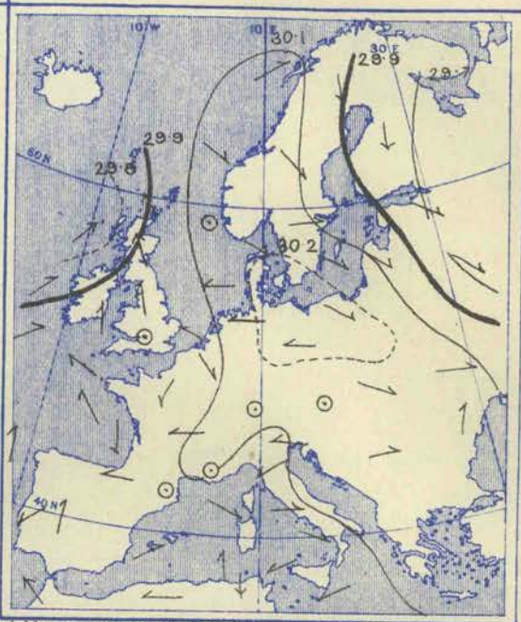
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright (1) over the greater part of southern and central Europe, as well as in Denmark and the greater part of Sweden; (2) dull and very uncertain over the English Channel, England, and Ireland, with damp, misty showers in some places; (3) dull over the northern half of Russia and the north-west of Norway, with rain at Christiansund, Bodö, and Kuopio. Rain falling later over the British Islands, the north-west of Norway, and several parts of Russia—the amounts being considerable at our western stations, slight elsewhere. Fog or mist prevalent in several places.

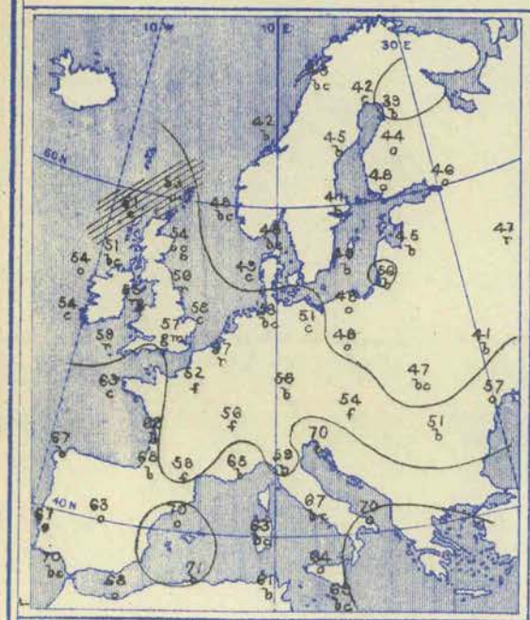
Temperature risen over the British Islands. Morning readings highest, 73° at Athens, and above 70° in several places on the southern side of the Mediterranean; 68° at Rome, 67° at Toulon, 66° at Lesina; 63° at Jersey, 60° at Hurst Castle, and above 55° over the greater part of our Islands. Lowest, 40° at Archangel, 44° at Haparanda and Karlstad, 46° at Kuopio, Stockholm, and Riga, 47° at Skudesnaes and Münster; 50° at Hermanstad. Rising later to between 64° and 69° over the southern half of England, but to only 63° at Berlin and 68° at Paris, but touching 79° at Nice and Trieste, 84° at Rochefort and 86° at Biarritz and 91° at Biskra.

Wind light and extremely variable except over the British Islands and northern Europe. Easterly to Southerly over the British Islands, and blowing rather freshly at the western stations; North-Westerly over Scandinavia and the Gulf of Finland, and blowing a gale at Hernösand and Wisby; North-North-Easterly and light at Uleaborg and Haparanda. No decided change later except a veering towards South-West in Ireland.

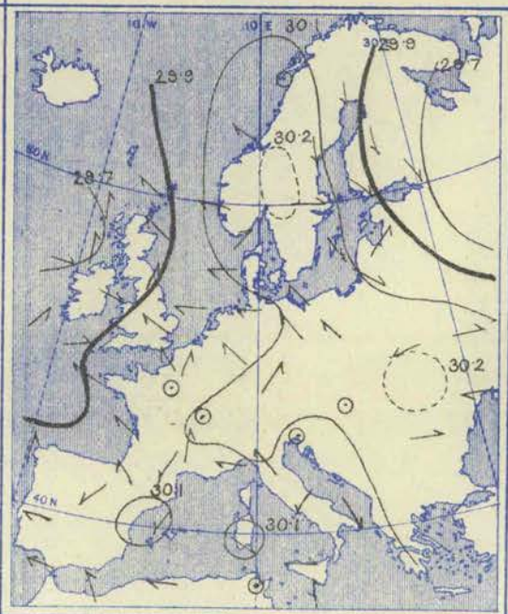
Barometer highest, 30·3 ins. and more to 30·1 ins. in a large but complicated anticyclone covering all the southern, central, and north-western parts of Continental Europe including the eastern half of England. Lowest, (1) 29·5 ins. and less over the north of Russia and the White Sea; (2) below 29·9 ins. over the north-west of Ireland and the neighbouring parts of the Atlantic. Shallow depression advancing towards our north-west coasts later, and barometer falling a little over the British Islands and France, rising in Scandinavia.

Wednesday, 29th September.

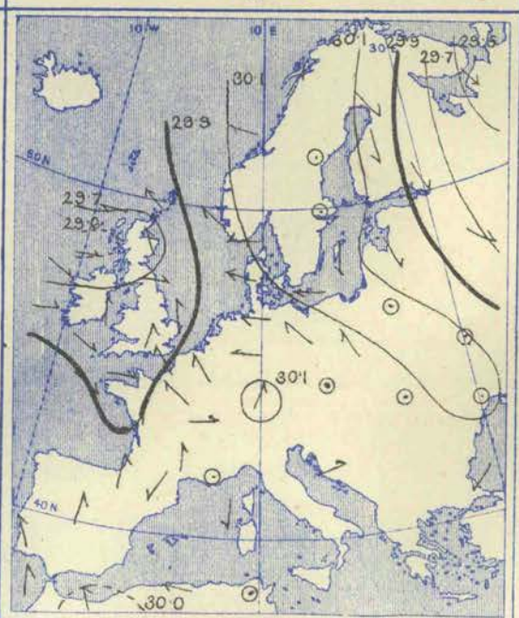
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-eastern, southern, and many parts of central and south-western Europe, as well as over the Baltic and Scandinavia; cloudy over our Islands and Belgium, with some rain in many places. Rain falling later over the whole of the United Kingdom and neighbourhood, as well as in the north-west of Norway—amounts heavy in the Shetlands and Caithness, as well as at Scilly and in the south-eastern and south midland parts of England, where heavy thunderstorms occurred at night, and the rainfall exceeded an inch in most places, and amounted to 2·12 ins. at Hillington, and more than an inch-and-a-quarter at Norwood and Wandsworth Common. Lightning very vivid and constant.

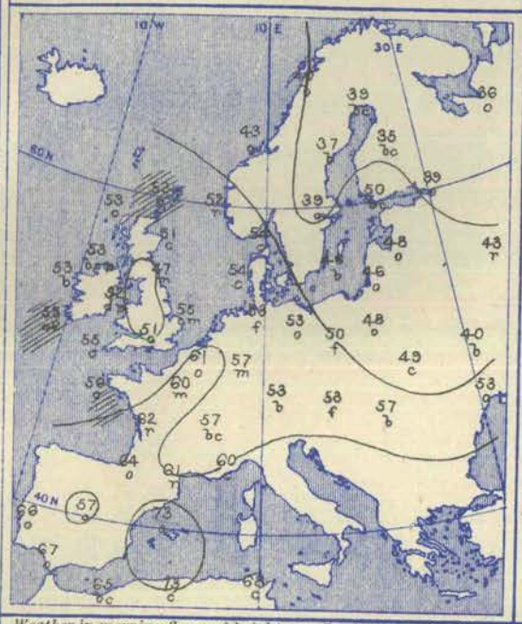
Temperature in morning highest, 71° at Algiers, 70° at Brindisi and Barcelona, and exceeding 60° at the Mediterranean stations generally, 65° at Jersey, 59° at Scilly, 60° at Münster and the North Foreland. Lowest, (1) 39° at Karlstad and Uleaborg, 41° at Stockholm, 42° at Christiansund, 45° at Helsingfors; (2) 41° at Kiev, 42° at Kharkov, 47° at Lemberg and Cracow. Rising later to 70° at Jersey, 71° in London, 73° at Paris, 81° at Rochefort.

Wind (1) very variable and light over the Mediterranean and all the southern, central, and eastern parts of Europe; (2) light, but cyclonic, from between West and South over Ireland, from between West, South, and South-East over England, from between South-East and South in Scotland, and from East in the west of Norway; (3) Northerly to North-Westerly over the Gulf of Bothnia and Finland, and from the Westward over the Baltic Provinces. Shifting from West to North-West over our western districts later; remaining Southerly to South-Easterly over the south-east of England till night.

Barometer in morning highest, 30·21 ins. at Karlstad, and exceeding 30·0 ins. over the greater part of Continental Europe. Lowest, below 29·7 ins. over the north-eastern parts of Russia, and also off the extreme north-western coasts of our Islands. Falling very briskly over the east of England and the north of France later. A "V" shaped secondary depression forming over England and France, and moving eastwards.

Thursday, 30th September.

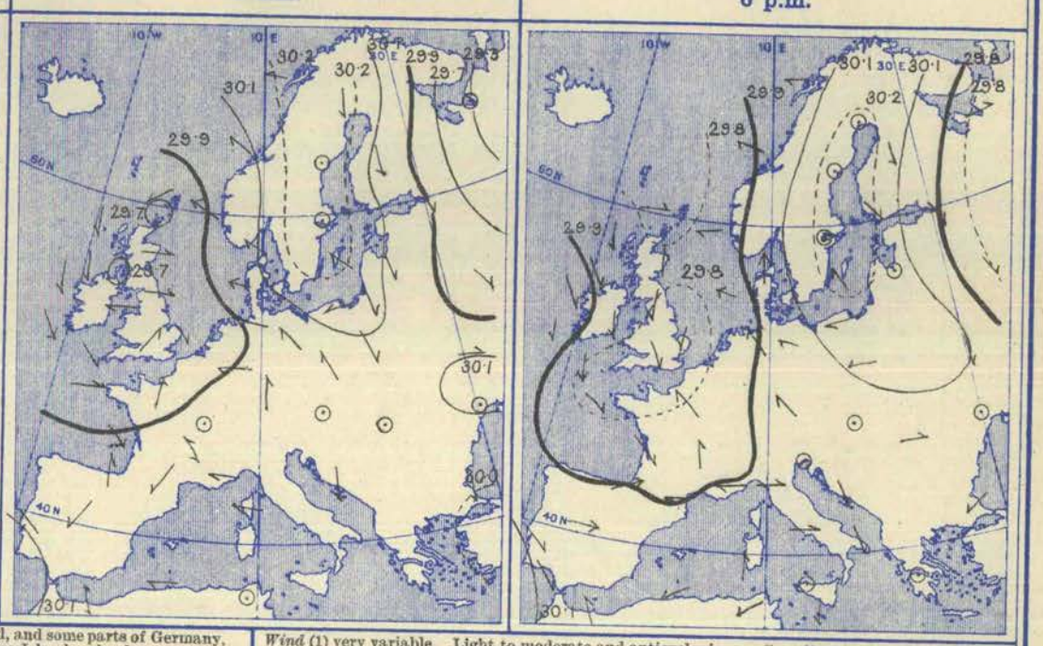
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over Lapland, Sweden, Finland, and some parts of Germany, and at a few stations over the northern and western parts of our Islands; cloudy or overcast elsewhere, with rain at some of our own stations and at Skudesnaes, and fog over many parts of central Europe. Some rain falling later in several parts of the United Kingdom, and larger quantities over the Continent—especially over the south-western parts of France, where the falls ranged from 1·0 ins. to 1·7 ins. in many places, and to 2·6 ins. at Marseilles, and thunderstorms occurred generally. Lightning reported at the North Foreland.

Temperature fallen decidedly over the British Islands, and many parts of northern Europe. Morning readings highest, 73° at Algiers and Barcelona, and exceeding 60° on the coasts of southern Europe generally, 58° at Jersey, 55° at Dungeness, Scilly, and Valencia. Lowest, (1) 33° at Uleaborg, and below 40° over the north of Russia, and on the Swedish coast; 40° at Kieff, 41° at Kharkov, 42° at Odessa; (2) 42° at York, 44° at Loughborough, 47° at Shields. Rising later to between 60° and 64° over many parts of England, and the south-east of Ireland; touching 66° at Berlin, 70° at Paris and Lyons, 72° at Nice, 75° at Belfort.

Barometer and Wind. 8 a.m. and 6 p.m.

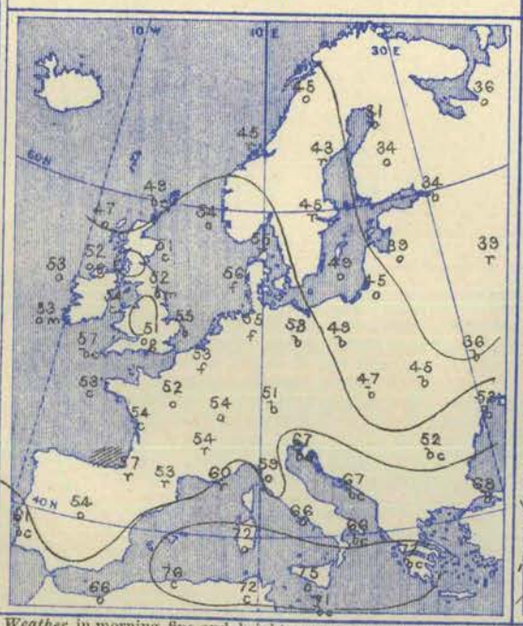


Wind (1) very variable. Light to moderate and anticyclonic over Scandinavia and the Baltic, as well as over central and south-eastern Europe; (2) South-Easterly and strong on the eastern shores of the North Sea; (3) Northerly and fresh at the Irish stations, but extremely light and variable over Great Britain. Becoming Northerly over our Islands generally during the day.

Barometer highest, 30·2 ins. and more to 30·1 ins. in an elongated anticyclone covering Sweden, the Gulf of Bothnia and the Baltic, and exceeding 30·0 ins. in two other systems—one over the south of Russia, and the other over the south-west of Spain and adjacent parts of the Atlantic. Lowest, below 29·5 ins. over the north-east of Russia; below 29·65 ins. at Sumburgh Head, and ranging between 29·7 ins. and 29·8 ins. over the whole of Great Britain and the east of Ireland. Rising generally over the United Kingdom later—most in the west.

Friday, 1st October.

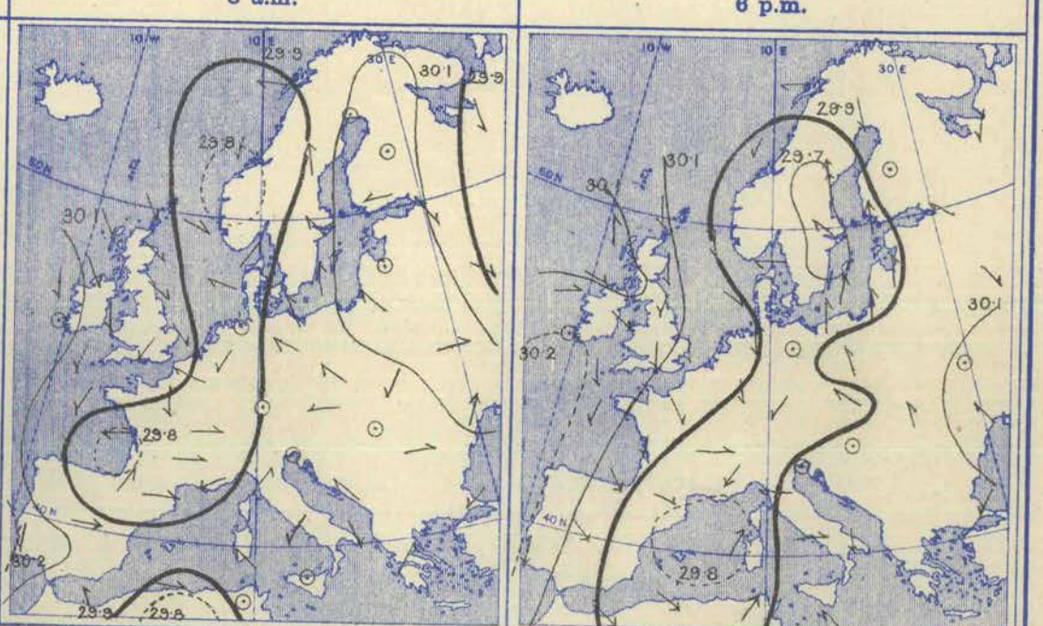
Temperature and Weather. 8 a.m.



Weather in morning fine and bright over many parts of south-eastern and central Europe, as well as the Baltic provinces of Russia; dull and rainy over Scandinavia, and the east, south, and south-west of France; fair over the British Islands, but dull in many places. A little rain falling later over Ireland and the north of Scotland, and exceedingly large quantities over the south of France and north of Italy on the one hand, and large quantities over Scandinavia on the other. Bright aurora seen in the north of Scotland at night.

Temperature fallen at most of the Continental stations. Morning readings highest, 76° at Algiers, 75° at Palermo, 72° at Athens, and exceeding 60° over Italy, and on the south-western coasts of Spain; 57° at Jersey, Scilly, and the North Foreland. Lowest, (1) 31° at Uleaborg, 32° at Helsingfors, 35° at Kharkov, 39° at Moscow and Riga, 45° at Lemberg; (2) 47° at Stornoway and Leith, 49° at Ardrossan and Loughborough. Rising later to between 60° and 65° over many parts of England to 61° at Fanö, 65° at Paris, and 72° at Berlin; not exceeding 66° at Nice, or 59° at Lyons and Cape Sicié, but touching 79° at Brindisi and 93° at Tunis.

Barometer and Wind. 8 a.m. and 6 p.m.

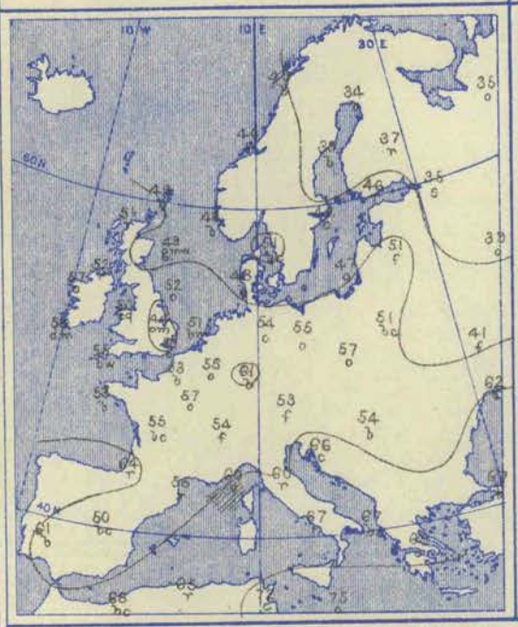


Wind very variable (1) Light to moderate from between North-West and North-East over the British Islands, but from South-East or South over Sweden and north Germany; (2) light from Northward over central Russia; (3) cyclonic circulation of moderate wind prevailing over the south-west of France, and over the southern half of Norway. No decided change later.

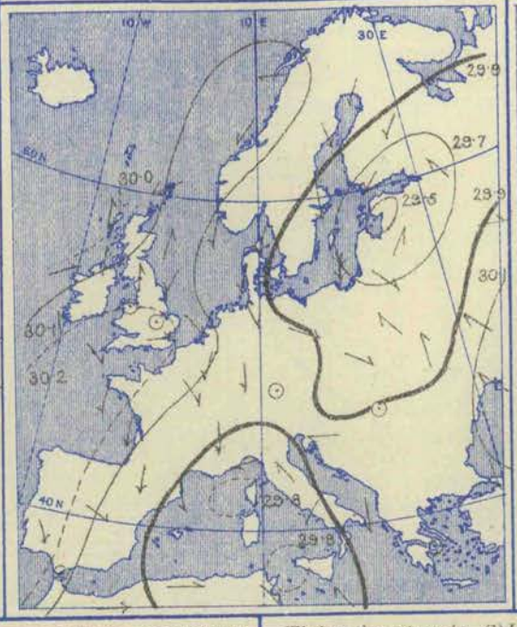
Barometer highest, 30·2 ins. to 30·0 ins. in an elongated anticyclone covering Finland, western Russia, Poland, Hungary, and the Baltic Peninsula, as well as over the western parts of our Islands and the neighbouring part of the Atlantic. Lowest, below 29·8 ins. over central Russia and in three rather small depressions—one over the southern half of Norway, another over the south-west of France, and a third over northern Africa. Rising over our Islands all day.

Saturday, 2nd October.

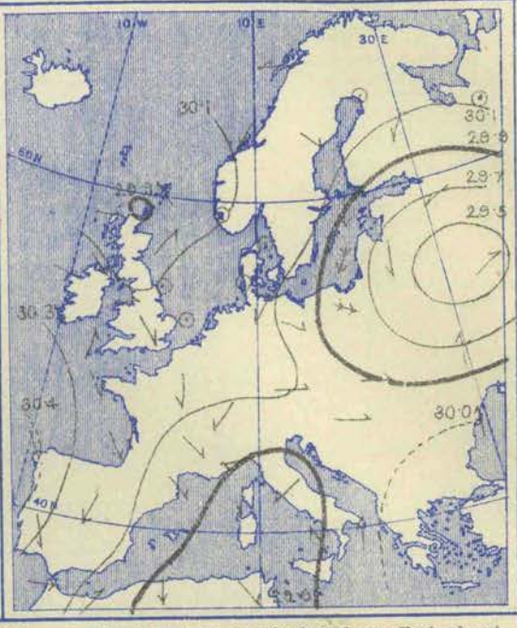
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over the south of England, the western parts of France, and the greater part of Spain, fair over south-eastern Europe, and also over Lapland, very dull, however, over the greater part of the Continent and the United Kingdom, rainy and unsettled over the west and north-west of our Islands, and very rough and rainy over the Gulfs of Finland and Bothnia, and the Baltic. Rain falling later in all parts of the British Islands—falls considerable at York and Liverpool; hardly any at the Continental stations.

Temperature risen over France and several parts of central and south-eastern Europe, but beginning to fall decidedly in the north. Morning readings highest, 75° at Malta, 72° at Tunis, and exceeding 60° at the stations in Algeria, Italy, and south-eastern Europe; 64° at Biarritz, 58° at Valencia (Ireland), 56° at the North Foreland, and also at Neufahrwasser and Memel. Lowest, 34° at Haparanda and St. Petersburg, 35° at Archangel, 37° at Kuopio; 43° at Skudesnaes, 45° at Nairn, and 44° at Loughborough. Rising later to between 60° and 64° at a few of our own stations, and to 66° at Lorient, but tending to fall very decidedly over northern Europe.

Wind varying extremely. (1) Light and anticyclonic from the Northward over England and France, and from the South-Eastward over the southern parts of Russia; (2) cyclonic over northern Europe, and strong to a gale in force from the Northward over several parts of Sweden; cyclonic over the Mediterranean also, but only moderate in force. Shifting to North-West over Ireland later; falling nearly calm over England.

Barometer highest, 30·2 ins. to 30·1 ins. and more in a high-pressure system lying over the Bay of Biscay and neighbouring parts of the Atlantic, and stretching northwards across England to Norway. Lowest, (1) about 29·5 ins. in a well-marked depression over the Gulf of Riga and a part of the Gulf of Finland; (2) below 29·9 ins. over the Mediterranean generally, and rather below 29·8 ins. in some localities. A new "V" shaped disturbance being developed over our Islands later, and moving eastwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus; ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of this week the barometer was highest (30·3 ins. and more to 30·1 ins.) over the whole of the central, south-eastern, and western parts of Continental Europe, lowest (29·5 ins. and less) in the extreme north and north-west, and depressions reaching the last-named regions from the Atlantic moved eastwards over the northern countries as far as the east of Lapland, and then travelled south-eastwards over the north of Russia. Temperature rose during the day to between 65° and 70° in many parts of England, to 72° at Berlin, and 78° at Paris.

On Tuesday, however, the high-pressure area was moving northwards, and the barometer was falling over southern Europe, and from this time to the end of the week areas of high and low pressure followed one another quickly from west to east over our Islands, undergoing great modification in form during their transit. The low-pressure systems brought with them much rain—especially that of Wednesday, in which severe thunderstorms were developed over the south-eastern half of England, and the rainfall in these regions, as well as in the north of Scotland, and at Scilly, was very heavy.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 230.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	28·0	+ 5·8	35	+ 7	EASTBOURNE	35·0	- 1·0	43	0
OSWALDKIRK (Yorkshire)	24·4	- 1·6	30	- 1	VENTNOR	37·1	?	46	?
WORKSOP	19·2	- 7·1	24	- 7	SOUTHPORT	28·2	?	35	?
THURCASTON (Leicestershire)	18·9	- 6·3	23	- 7	COLWYN BAY				
MARGATE	25·5	- 4·6	31	- 5	NEWQUAY	30·6	- 2·4	38	- 2
WESTBOURNE (Sussex)	33·1*	- 0·9	41*	0	TORQUAY	33·8*	- 0·2	42*	0
BRIGHTON	36·8	+ 2·3	45	+ 4	GUERNSEY	21·7*	- 15·3	26*	- 18

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

WEEKLY WEATHER REPORT.

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VOL. XIV No. 40.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 9TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 236.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	69	33	54·8	43·0	48·7	1 above	47	− 3	0	− 3	1893	+153	622	− 8
	1. SCOTLAND, EAST	65	32	56·4	41·2	48·6	0 (average)	50	− 5	2	− 2	2109	0	672	+ 15 *
	2 ENGLAND, N.E.	60	35	55·4	43·7	49·4	1 below	52	−18	0	− 1	2327	+ 55	471	− 79
	3. ENGLAND, EAST	61	30	55·8	40·4	47·9	3 below	48	−29	4	+ 3	2755	+133	497	−121
	4. MIDLAND COUNTIES	60	28	55·5	38·5	46·7	4 below	48	−25	10	+ 8	2684	+ 71	514	−108
	5. ENGLAND, SOUTH	63	33	57·0	43·8	50·2	3 below	57	−29	0	− 1	3037	+193	297	−181
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	60	34	55·7	44·7	50·0	1 above	56	− 7	0	− 2	2269	+ 63	445	− 19
	7. ENGLAND, N.W.	61	38	55·8	45·6	50·5	1 below	60	−12	0	− 1	2531	+116	367	− 93
	8. ENGLAND, S.W.	63	31	56·9	43·9	50·2	2 below	57	−23	0	− 1	2856	+199	223	−139
	9. IRELAND, NORTH	61	34	56·1	43·9	49·8	0 (average)	55	− 8	0	− 1	2330*	+ 6	403	+ 7
	10. IRELAND, SOUTH	62	35	58·2	45·1	51·4	0 (average)	66	− 4	0	− 1	2748	+122	242	− 59
	—CHANNEL ISLANDS	62	41	58·4	48·1	53·1	2 below	78	−22	0	0	3296	+303	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 236.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	11	0 (average)	177	− 5	32·5	− 2·8	16	− 3	21	− 3	1102	+155	30	+ 5
	1. SCOTLAND, EAST	3	1	6 less	160	+11	22·2	− 1·5	30	+ 8	39	+11	1213	+ 85	33	+ 3
	2. ENGLAND, N.E.	3	1	6 less	143	+ 5	18·9	− 0·5	22	− 4	28	− 3	1293	+163	35	+ 5
	3. ENGLAND, EAST	2	1	6 less	139	+ 3	18·9	− 0·4	33	+ 4	42	+ 6	1426	+ 86	39	+ 2
	4. MIDLAND COUNTIES	1	less than ½	7 less	137	+ 5	21·5	+ 0·4	38	+13	49	+18	1361	+152	37	+ 4
	5. ENGLAND, SOUTH	1	less than ½	8 less	131	+ 3	21·3	+ 0·2	41	+11	52	+14	1480	+ 71	40	+ 1
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	4	8 less	171	+15	33·4	− 1·7	26	+ 1	34	0	1252	+ 36	33	+ 1
	7. ENGLAND, N.W.	3	2	8 less	158	+15	26·1	+ 0·8	26	− 3	33	− 4	1350*	+106	35	+ 3
	8. ENGLAND, S.W.	1	less than ½	10 less	163	+19	33·1	+ 5·2	32	+ 2	42	+ 5	1464	+ 13	40	0
	9. IRELAND, NORTH	4	2	7 less	184*	+15	30·7*	+ 3·2	19	− 4	25	− 4	1134	+ 38	31	+ 1
	10. IRELAND, SOUTH	2	2	6 less	172	+20	33·0	+ 4·4	30	+ 3	38	+ 4	1219	− 27	33	− 1
	— CHANNEL ISLANDS	1	1	9 less	173	+22	27·6	+ 4·4	44	+11	55	+15	1525	−132	43	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this week was fair and dry over the Kingdom as a whole ; rain, however, occurred frequently over our extreme northern and north-western districts, especially at the coast stations, and the fall extended on one or two occasions to many other parts of the Kingdom.

Temperature was considerably below the mean over England ; it just equalled the mean over Ireland and in Scotland E., and slightly exceeded it in Scotland N. and W. The highest of the maxima were registered, as a rule, on the 3rd, and ranged from 69° in Scotland N., to 65° in Scotland E., and to 60° in England N.E., the Midland counties, and Scotland W. The lowest of the minima were recorded about the middle part of the period, when the thermometer in the screen fell to 28° in the Midland counties, 30° in England E., and 31° in England S.W., to 35° in England N.E. and Ireland S., 38° in England N.W., and to 41° in the Channel Islands. Over the inland counties very sharp frost occurred on the grass. Both at the beginning and end of the week the minimum values were considerably higher.

Rainfall just equalled the mean in Scotland N., but was much less in all other parts of the Kingdom. Over all the eastern and southern parts of Great Britain the fall was very slight.

Bright Sunshine varied a good deal in different parts of these Islands, but was in excess of the mean in most districts. The percentage of the possible duration ranged from 55 in the Channel Islands, 52 in England S., and 49 over the Midland counties, to 28 in England N.E., 25 in Ireland N., and 21 in Scotland N.

Barometer and Wind.—At the commencement of the period a "V" shaped depression lay over the North Sea, while anticyclones were shown, both over Scandinavia and our south-western districts. The "V" shaped depression, however, soon dispersed, and the two anticyclones becoming united, formed one high-pressure system, covering the Baltic, and stretching thence over our Islands. Depressions then skirted our extreme northern and north-western coasts, and the winds were consequently Westerly and South-Westerly in the north, and North-Easterly in the south-east and south. Towards the end of the period the anticyclone moved southwards and south-westwards and partially dispersed, while the depressions in the north spread more over us. With this change the wind became moderate or fresh from South-West or West on all our coasts, but by the end of the week it had veered to the North-Westward and fallen light.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 235 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	55	41	53·4	45·1	49·1	+ 1·7	50	0	6	0·97	+ 0·08	*	*	*	*
	Stornoway	56	40	53·3	43·1	48·1	+ 0·8	43	0	6	0·70	- 0·38	14·5	- 7·1	19	- 8
	Wick	58	40	54·9	43·1	48·8	+ 0·9	48	0	4	0·77	+ 0·15	*	*	*	*
	Lairg Ⓢ	60	38	58·6	41·3	49·7	+ 3·6	57	2	4	0·58	- 0·30	*	*	*	*
	Glencarron Ⓢ	58	37	53·7	43·0	48·2	+ 1·4	43	0	5	1·96	+ 0·04	*	*	*	*
	Fort Augustus Ⓢ	58	33	55·8	41·3	48·3	- 0·5	47	2	5	0·84	- 0·14	19·1	+ 3·3	25	+ 5
	Fort William Ⓢ	57	37	54·0	44·0	48·9	- 0·5	48	0	4	2·06	+ 0·29	13·5	- 7·2	18	- 7
1. SCOTLAND, E.	Nairn	60	39	57·3	41·6	49·2	+ 0·9	52	1	4	0·13	- 0·49	*	*	*	*
	Aberdeen	61	39	57·9	42·6	50·0	+ 1·1	56	0	4	0·25	- 0·47	40·9	+16·9	53	+22
	Braemar Ⓢ	53	32	51·2	37·4	44·1	- 1·2	34	13	3	0·13	- 0·65	25·7†	+ 3·7†	33†	+ 6†
	Ochtertyre Ⓢ	62	36	58·0	40·0	48·7	+ 0·2	55	6	2	0·12	- 0·80	*	*	*	*
	Leith	65	41	59·1	43·3	51·0	+ 0·7	63	0	1	0·01	- 0·51	*	*	*	*
	Marchmont Ⓢ	58	37	55·1	42·1	48·4	+ 0·6	45	0	4	0·14	- 0·66	26·3	+ 4·3	34	+ 6
2. ENGLAND, N.E.	Alnwick Castle	59	40	56·3	43·9	49·9	+ 1·1	55	0	4	0·08	- 0·65	*	*	*	*
	Durham	60	41	55·3	43·0	49·0	- 0·3	49	0	2	0·03	- 0·64	22·0	- 1·6	29	0
	Shields	59	40	55·7*	43·7	49·5	- 0·4	53	0	3	0·09	- 0·49	*	*	*	*
	Scarborough Ⓜ	58	40	54·3	43·8	48·9	- 1·8	48	0	3	0·06	- 0·64	26·1	?	33	?
	York	59	35	55·4	39·7	47·3	- 2·9	47	6	3	0·12	- 0·50	17·7	- 6·7	23	- 6
	Spurn Head	57	45	55·6	48·1	51·7	- 0·3	68	0	1	0·02	- 0·51	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	60	33	56·5	39·2	47·6	- 3·2	51	8	2	0·05	- 0·60	25·3	- 1·3	32	- 1
	Yarmouth	57	40	54·6	45 0	49·7	- 2·4	54	0	2	0·14	- 0·58	*	*	*	*
	Geldeston	58	32	55·8	40·6	48·0	- 3·8	48	4	2	0·09	- 0·55	38·8	+ 7·8	50	+11
	Cambridge	61	31	57·4	38·4	47·6	- 3·7	54	10	0	—	- 0·55	34·0	+ 5·7	44	+ 8
	Rothamsted	59	30	54·7	39·0	46·6	- 4·0	45	8	2	0·04	- 0·66	33·2	+ 5·2	43	+ 8
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	59	32	56·0	37·9	46·7	- 3·3	50	11	1	0·02	- 0·61	*	*	*	*
	Loughborough	59	30	56·9	37·1	46·7	- 4·2	53	14	1	0·01	- 0·62	*	*	*	*
	Stamford (Duddington)	59	28	55·3	37·7	46·2	- 5·1	47	12	1	0·01	- 0·71	*	*	*	*
	Cheadle Ⓜ	56	36	53·0	39·7	46·2	- 3·2	39	6	1	0·05	- 0·65	*	*	*	*
	Shirley (near Solihull)	57	31	54·8	38·4	46·4	- 3·5	46	10	2	0·04	?	*	*	*	*
	Churchstoke Ⓜ	58	35	55·7	40·7	48·0	- 1·0	47	4	1	0·02	- 0·73	39·2	+14·4	50	+19
	Hereford Ⓜ	?	35	?	39·9	?	?	?	?	1	0·06	- 0·62	*	*	*	*
	Cirencester	59	30	56·1	37·1	46·3	- 3·5	51	14	1	0·03	- 0·71	45·6	+20·7	58	+26
	Oxford	60	32	56·3	39·0	47·4	- 3·9	50	8	1	0·03	- 0·64	41·2	+14·1	53	+18
5. ENGLAND, S.	London	61	33	56·4	40·4	48·2	- 3·7	50	4	2	0·03	- 0·59	23·5†	+ 1·7†	30†	+1†
	North Foreland	58	40	54·9	47·0	50·8	- 2·6	62	0	3	0·10	?	*	*	*	*
	Dungeness	61	36	56·9	44·1	50·3	- 3·4	58	0	1	0·07	- 0·70	*	*	*	*
	Hastings (St. Leonards)	60	42	56·3	44·8	50·4	- 3·0	59	0	1	0·04	- 0·81	44·0	+11·0	56	+15
	Southampton	63	33	60·2	41·7	50·7	- 2·3	61	1	0	—	- 0·79	45·9	+16·9	59	+21
	Hurst Castle	61	38	59·0	45·4	52·0	- 1·7	70	0	0	—	- 0·80	*	*	*	*
	Shaftesbury Ⓜ	58	40	55·5	43·1	49·1	- 0·9	50	0	1	0·05	- 0·85	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	57	41	55·3	44·9	50·0	+ 0·9	56	0	5	0·67	- 1·13	*	*	*	*
	Glasgow	56	38	54·3	42·9	48·4	+ 0·1	45	0	4	0·26	- 0·59	18·5	- 0·1	24	- 1
	Ardrossan	58	39	55·3	45·6	50·3	- 0·2	58	0	4	0·14	- 0·66	*	*	*	*
	Glenlee Ⓢ	60	34	56·6	42·4	49·3	+ 0·5	51	0	5	0·36	- 0·91	*	*	*	*
	Gilcrux (Cumberland)	58	39	55·5	45·3	50·3	+ 0·7	58	0	4	0·45	?	29·3	?	38	?
	Douglas (Isle of Man)	59	42	57·3	46·8	51·9	+ 1·8	69	0	3	0·36	- 0·52	30·9	+ 1·1	40	+ 2
7. ENGLAND, N.W.	Stonyhurst	57	40	53·5	43·8	48·4	- 1·3	45	0	4	0·27	- 0·88	16·8	- 8·7	22	-10
	Blackpool Ⓜ	60	38	57·3	43·9	50·4	- 0·5	59	0	5	0·26	- 0·71	24·6	- 0·1	32	0
	Manchester (Prestwich)	58	39	54·6	42·7	48·5	- 1·4	46	0	3	0·19	- 0·78	23·2	?	30	?
	Liverpool Obsy. (Bidston)	58	43	55·9	46·9	51·3	- 0·1	65	0	1	0·05	- 0·80	*	*	*	*
	Llandudno Ⓜ	61	44	56·5	47·3	51·8	- 0·8	69	0	3	0·10	- 0·76	31·7	+ 9·1	41	+12
	Holyhead	58	46	56·7	48·7	52·6	- 0·3	74	0	4	0·09	- 0·79	*	*	*	*
8. ENGLAND, S.W.	Llandovery	62	33	58·4	38·9	48·4	- 1·1	58	9	3	0·12	- 1·08	*	*	*	*
	Pembroke	57	48	56·4	50·6	53·4	+ 0·3	80	0	0	—	- 0·90	30·6	+ 2·1	39	+ 3
	Clifton	59	38	55·3	43·3	49·1	- 2·2	50	0	1	0·01	- 0·86	*	*	*	*
	Arlington (N. Devon)	57	36	56·0	42·1	48·8	- 2·2	48	0	2	0·12	- 1·13	*	*	*	*
	Cullompton Ⓜ	60	31	57·9	39·3	48·3	- 3·5	55	8	1	0·01	- 0·89	41·3	+15·1	53	+20
	Falmouth	59	43	57·1	47·7	52·3	- 1·4	72	0	0	—	- 1·18	30·4	- 0·4	39	0
	Plymouth	60	41	56·7	44·5	50·4	- 2·9	59	0	2	0·03	- 0·89	31·4	+ 2·5	40	+ 3
	Prawle Point	63	40	57·1	45·1	50·9	- 2·8	62	0	0	—	- 0·79	*	*	*	*
9. IRELAND, N.	Malin Head	57	45	55·3	47·3	51·2	+ 0 8	64	0	4	0·24	?	*	*	*	*
	Londonderry	60	39	56·7	43·7	50·0	0·0	56	0	4	0·23	- 0·72	*	*	*	*
	Edenfel (Omagh)	58	34	54·3	42·0	48·0	+ 0·2	42	0	3	0·27	- 0·58	*	*	*	*
	Belmullet	59	43	57·3	48·0	52·5	+ 1·5	74	0	4	0·18	- 0·95	*	*	*	*
	Markree Castle	61	35	55·9	41·3	48·4	- 0·8	48	2	5	0·24	- 0·72	16·2	- 5·6	21	- 6
	Armagh	59	34	57·1	43·3	50·0	+ 1·0	56	0	4	0·11	- 0·54	22·2	- 2·8	28	- 3
	Donaghadee	60	42	56·9	44·9	50·7	+ 0·2	61	0	5	0·39	- 0·57	*	*	*	*
	Edgeworthstown	58	35	55·4	40·7	47·8	- 1·1	47	4	2	0·15	- 0 53	*	*	*	*
10. IRELAND, S.	Dublin	59	42	57·4	46·4	51·7	+ 0·4	68	0	3	0·19	- 0·39	35·0	+ 6 0	45	+ 8
	Parsonstown	61	39	57·7	43·6	50·4	+ 1·4	59	0	3	0·24	- 0·51	23·6	- 2·8	30	- 2
	Kilkenny	59	35	57·9	42·0	49·7	- 1·1	54	0	1	0·11	- 0·51	*	*	*	*
	Roche's Point	?	44	?	49·1	?	?	?	?	1	0·10	- 0·75	*	*	*	*
	Valencia	60	38	58·1	46·0	51·9	- 1·1	69	0	4	0·45	- 0·61	29·8	+ 2·9	38	+ 4
	Killarney	62	40	59·4	47·0	53·0	+ 1·4	77	0	0	—	?	*	*	*	*
	Foynes	61	41	58·5	45·4	51·8	+ 1·0	69	0	3	0·20	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	48	59·0	49·6	54·2	- 0·8	85	0	0	—	- 0·90	39·8	?	51	?
	Jersey	62	41	57·7	46·6	52·0	- 3·9	70	0	1	0·09	- 0·89	49·9	+15·4	63	+18

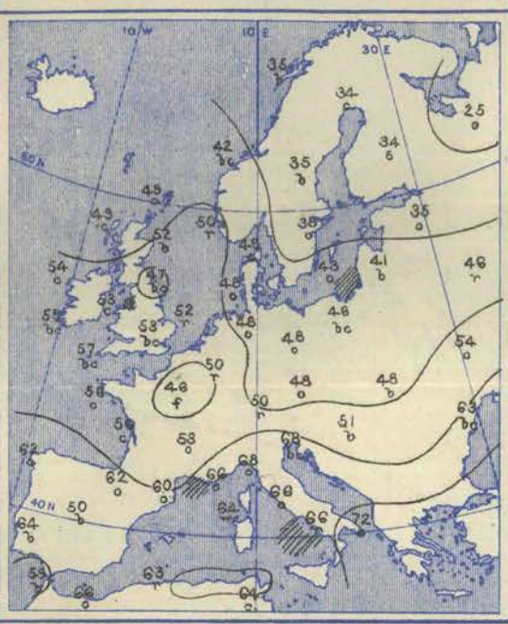
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 3rd October.

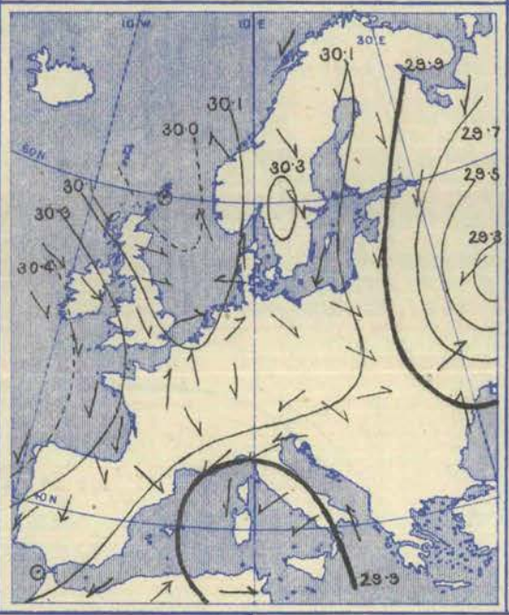
Temperature and Weather. 8 a.m.

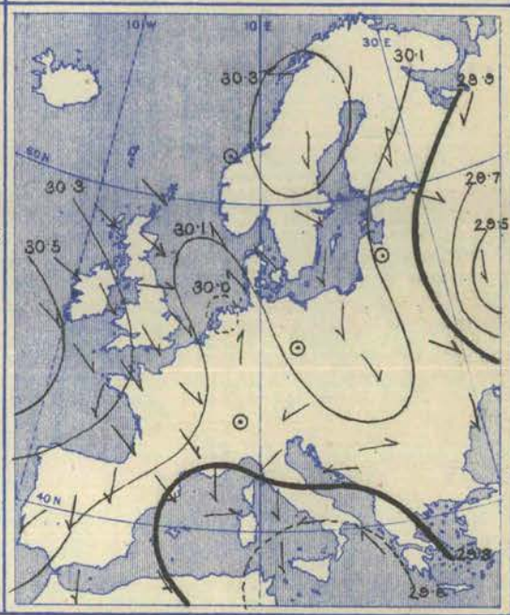


Weather in morning fine over the United Kingdom generally, but rainy on the south-east coasts of England, as well as in the adjacent parts of the Continent. Fine over the Spanish Peninsula, and also at most of the Scandinavian stations, but cloudy or dull over the central, southern, and eastern countries as a whole, with rain at Breslau, Munich, Naples, and Moscow. Improvement taking place later in the south-east of England, but showers falling in the north of Scotland. Heavy rain falling at the Helder, and also in many parts of Italy—as much as 1·6 ins. at Pesaro and Brindisi. Snow reported at Moscow in evening.

Temperature changed irregularly in our Islands, fallen at most of the Continental stations. Morning readings highest, 72° at Brindisi, 68° at Leghorn and Trieste, and 67° at Florence; above 60° over southern Europe generally. Lowest, 25° at Archangel, and 34° at Haparanda, Uleaborg, Hangö, Helsingfors, and Karlstad; below 40° over Sweden and northern Russia generally. Rising during day to 60° and upwards at several of our own southern stations, and to 65° at Leith; exceeding 70° in most parts of southern Europe, and reaching 79° at Barcelona and Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.



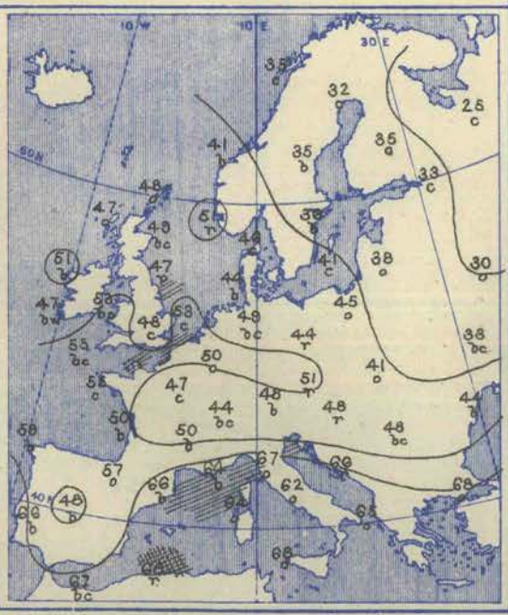


Wind moderate to strong from the North-Westward over our Islands and the west and south of France, but South-Easterly on the eastern shores of the North Sea. Northerly over Sweden, Germany, Austria, and northern Russia, with a gale at Wisby; South-Westerly or Southerly in the south of Russia. North-Easterly over the Spanish Peninsula and the central parts of Italy. No important change occurring over western Europe during day.

Barometer highest 30·4 ins. and upward in an anticyclone extending from the Atlantic over the south of Ireland and the extreme north-west of Spain; 30·2 ins. and upwards in another system over Sweden. Lowest, 29·3 ins. and less in a well-marked depression over central Russia; 29·8 ins. and less in a small disturbance near Rome; 30·0 ins. and less in a "V"-shaped system lying between the Scotch and Norwegian coasts. Russian depression subsequently moving eastwards; disturbance off our own northern coasts partially filling up.

Monday, 4th October.

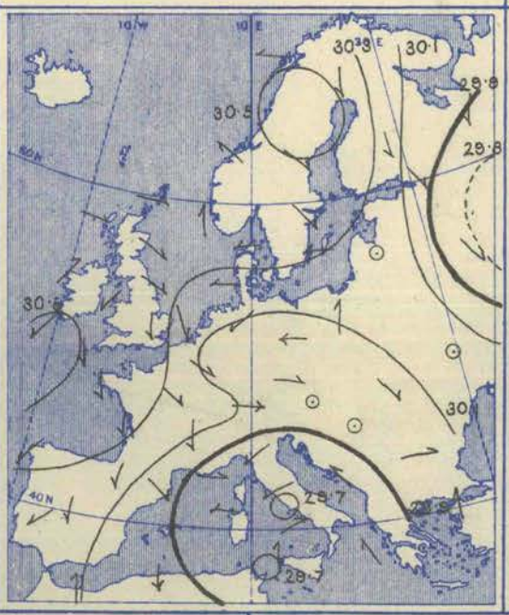
Temperature and Weather. 8 a.m.

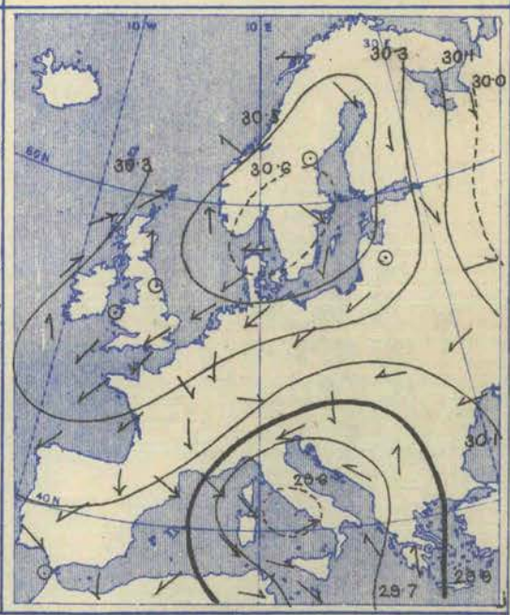


Weather in morning fine over western and northern Europe generally, but dull and showery in the north-east of England. Dull over Germany, Austria, and Italy, with rain in several places; fine in the south of Russia. Showers falling later at many stations in the east and south-east of England, and heavy rain over Italy, Austria, and the south of France—as much as 1·1 ins. at Lemberg; thunderstorms occurring at Nice and Monnier.

Temperature fallen in most places—quickly over the central and southern parts of Russia. Morning readings highest, 68° at Palermo, Constantinople, and Algiers, 67° at Nemours, and 66° at Lisbon, Barcelona, Lesina, and Oran; above 60° over southern Europe generally. Lowest, 25° at Archangel, 30° at Moscow, and 32° at Haparanda and Helsingfors; below 40° over Sweden and Russia generally. Daily maxima below 55° at some of our own northern stations, and below 60° on all but our extreme south-west coasts, thermometer exceeding 70° in most parts of southern Europe, and reaching 82° at Brindisi.

Barometer and Wind. 8 a.m. and 6 p.m.



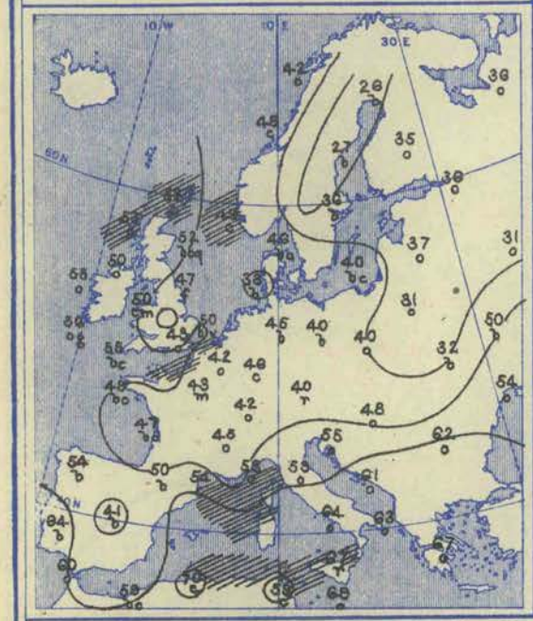


Wind light from Southward or South-Westward in the north of Ireland, and from the Westward in the north of Scotland; moderate to fresh from the Northward over England, France, and the Spanish Peninsula. Easterly or North-Easterly over Norway, Denmark, and north Germany, but Westerly in south Germany. Northerly or North-Westerly in Russia, calm in Austria; Easterly or North-Easterly in the north of Italy, but Southerly or South-Westerly in the south of that country. Southerly winds setting in later over the whole of Ireland and Scotland, and increasing to a gale at night in the Hebrides.

Barometer highest, 30·5 ins. and upwards in two areas—one lying off the south of Ireland and the other over the north of Scandinavia, 30·3 ins. and upwards in an anticyclone covering the greater part of western and northern Europe; 30·2 ins. and upwards in another system over the south of Russia. Lowest, 29·8 ins. and less in two depressions—one lying over Italy and the neighbouring parts of the Mediterranean, and the other over the northern parts of Russia. Western anticyclone beginning to give way later and depression appearing off our own extreme western coasts.

Tuesday, 5th October.

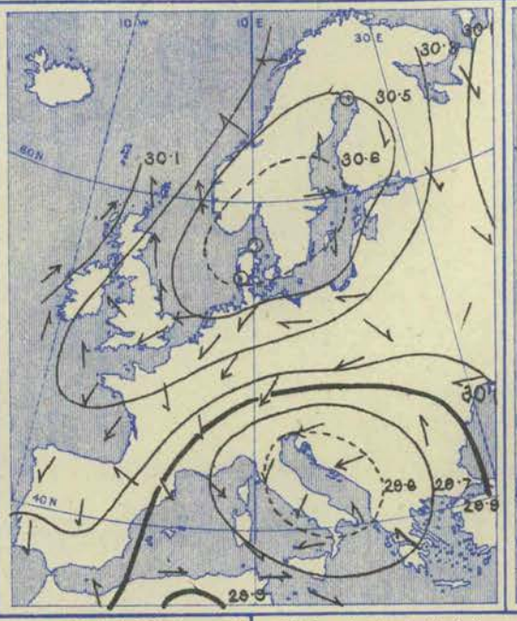
Temperature and Weather. 8 a.m.

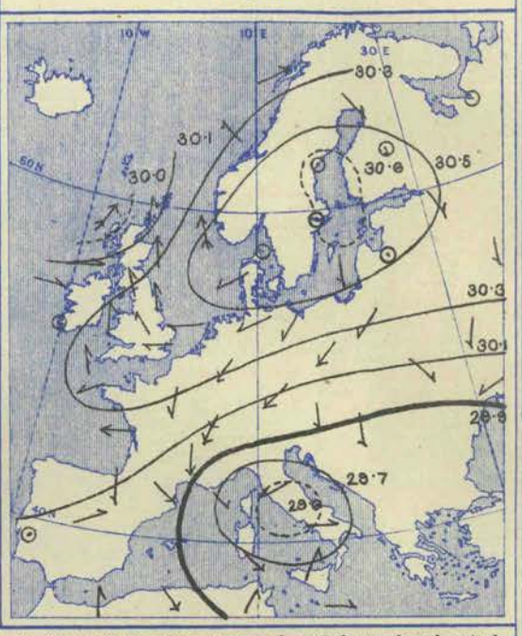


Weather in morning fair or fine over western and northern Europe generally, but dull at several of the Irish and Scotch stations. Dull and unsettled over Austria, Italy, and the southern parts of France, Germany, and Russia, with rain at Munich, Lesina, and Palermo, as well as at La Calle. Rain falling later over Ireland and the west and north of Scotland, but amounts mostly small; considerable quantities falling in Italy and Austria. Thunderstorm occurring at La Calle.

Temperature risen over Ireland, Scotland, and the west of Norway, and also in the south of Russia, but fallen elsewhere. Morning readings highest, 70° at Algiers, 69° at Malta, and 67° at Palermo and Athens; above 60° at the Mediterranean and Adriatic stations generally. Lowest, (1) 26° at Haparanda, 27° at Hernösand, and 31° at Moscow and Cracow; (2) 35° at Loughborough, and 40° at York. Rising during day to between 55° and 60° over our Islands generally, and to 61° at Leith; exceeding 60° also in the west of France, and exceeding 70° over Spain and Southern Italy. Ground frost occurring at night over the inland parts of England.

Barometer and Wind. 8 a.m. and 6 p.m.



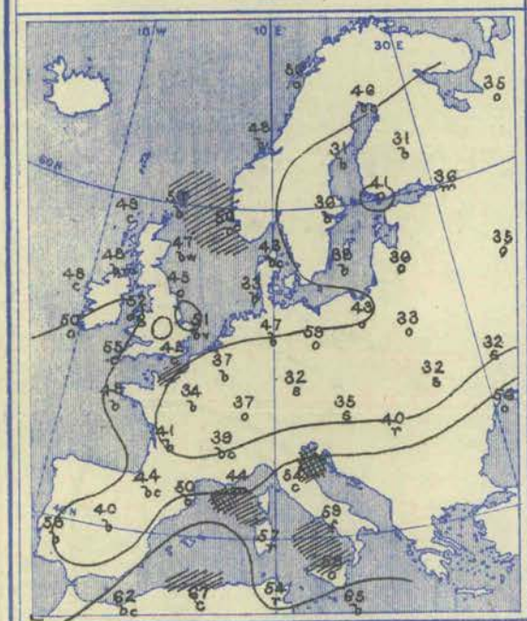


Wind moderate to fresh from the North-Eastward or Eastward over the south and east of England and the central and southern parts of the Continent generally, but rather variable over the Spanish Peninsula. Fresh to strong from the Southward on our own western and northern coasts; Easterly in the west of Norway. Light from the Northward or North-Westward over the northern and central parts of Russia. Subsequently veering to the South-Westward over Ireland and Scotland, and increasing to a gale in the extreme north and north-west.

Barometer highest, 30·6 ins. and upwards over Denmark and the south of Scandinavia; 30·3 ins. and upwards in an anticyclone covering the whole of northern Europe, and extending south-westwards over the North Sea, England, and the north of France. Lowest, 29·6 ins. and less in a well marked depression over Italy and the Adriatic; 30·1 ins. and less in another disturbance lying to the westward of our Islands. Latter disturbance subsequently moving northwards, and barometer rising on our western coasts.

Wednesday, 6th October

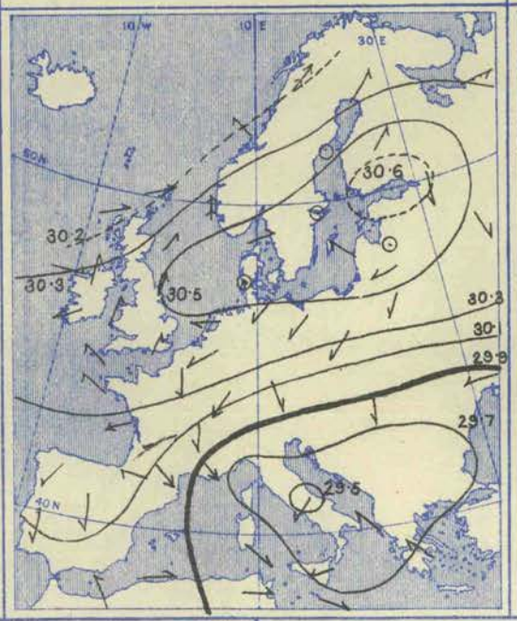
Temperature and Weather. 8 a.m.

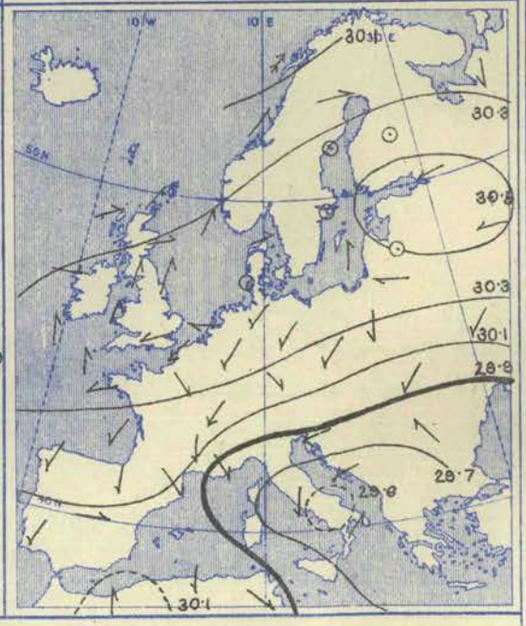


Weather in morning fair or fine over western and northern Europe as a whole, but dull in the south of Ireland and the northern parts of England and Wales. Dull and unsettled over Italy, with rain at Pesaro; rain and snow falling in Austria and the southern parts of Germany and Russia. A little rain falling later in Ireland and the southern parts both of England and Scotland, and larger quantities in some parts of Austria and the south of Russia. Solar and lunar halos seen at several of the English stations.

Temperature fallen generally. Morning readings highest, 67° at Oran and Algiers, 65° at Malta, and 63° at Palma, La Calle, and Sfax. Lowest, (1) 31° at Loughborough, and 40° at York and Oxford; (2) 31° at Hernösand and Kuopio; (3) 32° at Munich, Lemberg, and Kiev; below 40° over northern, central, and eastern Europe generally, but ranging between 48° and 50° along the west coasts of Norway. Rising during day to 55° and upwards in most parts of the United Kingdom and reaching 60° at Aberdeen, Roche's Point, and Scilly; remaining considerably below 50° in Germany and the east of France, and not exceeding 34° at Munich. Sharp frost occurring over the inland parts of England at night.

Barometer and Wind. 8 a.m. and 6 p.m.



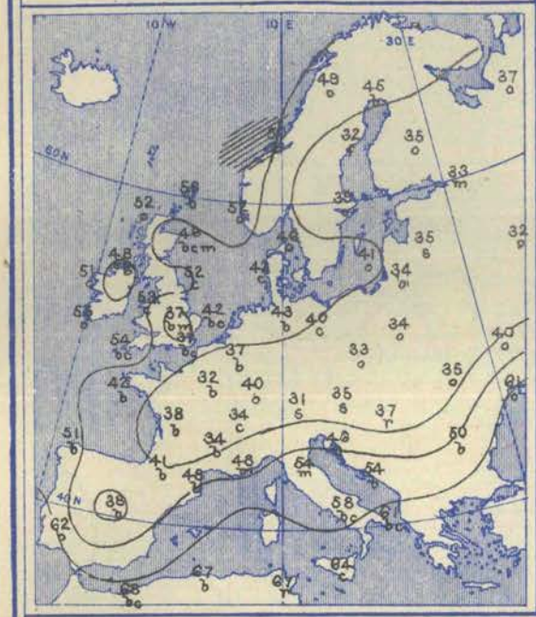


Wind light to fresh from the Eastward or North-Eastward over the south and east of England, and also over nearly all the more central, eastern, and southern parts of the Continent, but strong from the North-Westward in the south of France, and moderate from the Westward or South-Westward over the southern parts of Italy. Southerly or South-Westerly over the northern parts of our Islands, and also in Scandinavia and northern Russia; light or moderate in force generally, but blowing a gale at Bodö. No important change occurring over western Europe during day.

Barometer highest, 30·6 ins. and upwards over the Gulf of Finland and the neighbouring provinces; 30·3 ins. and upwards in an anticyclone embracing the greater part of northern and north-western Europe. Lowest, 29·5 ins. and less in a depression having its centre over central Italy; 30·2 ins. and less in a large area lying to the north of our Islands. Scarcely any change occurring over western Europe later.

Thursday, 7th October.

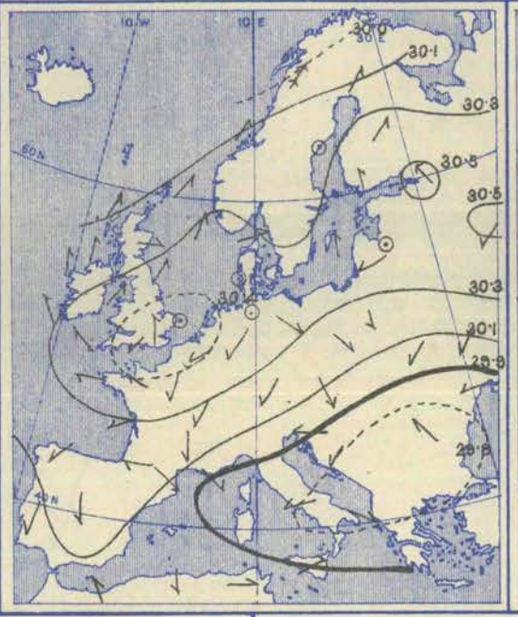
Temperature and Weather. — 8 a.m.

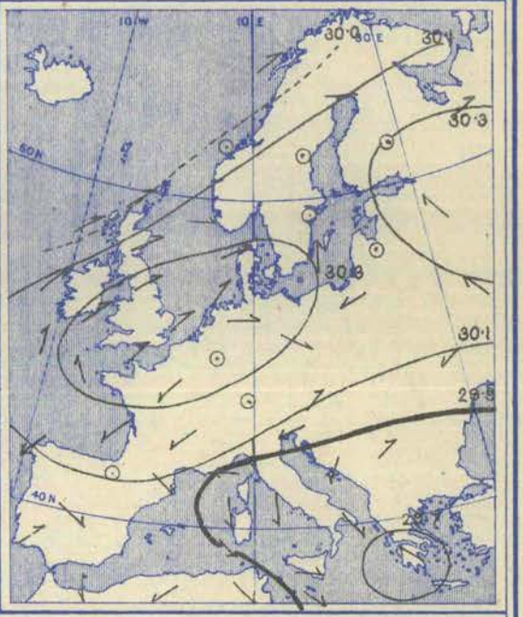


Weather in morning fair or fine over western and southern Europe generally, but cloudy and showery over the extreme northern parts of Ireland and England; fog or mist reported over the south-east of England. Dull and unsettled over the northern, central, and eastern countries, with rain at Buda-Pesth, and snow at Riga, Munich, and Vienna. Rain falling later in the north-west and extreme north of our Islands, but amounts mostly small; solar halo seen at Jersey. Heavy rain again falling at some of the Austrian stations.

Temperature changed very irregularly. Morning readings highest, 68° at Nemours, 67° at Algiers and Tunis, and 64° at San Fernando and Palermo. Lowest, (1) 31° at Munich, 32° at Paris, Moscow, and Hernösand, and 33° at Karlstad and St. Petersburg, Breslau and Munster; (2) 33° at Oxford, and 34° at Cambridge; below 40° over the central parts of England generally. Rising during day to between 55° and 60° in most parts of the United Kingdom, and to 61° at Aberdeen and Parsonstown; exceeding 60° also in the south of France, exceeding 70° over Spain and southern Italy, and reaching 79° at Lisbon. Ground frost occurring over the south-east of England at night.

Barometer and Wind. — 8 a.m. and 6 p.m.



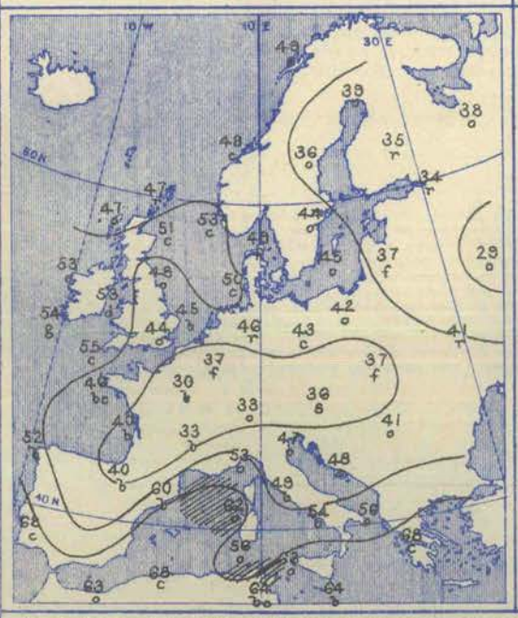


Wind Southerly or South-Westerly over all the more northern parts of our Islands, and also in Scandinavia and northern Russia; light to moderate in force generally, but blowing a gale at Bodö. Easterly or North-Easterly over the English Channel, and also over France, Belgium, and the southern parts of Germany; Northerly over the Spanish Peninsula, and North-Westerly in the extreme south of France. Calm or variable over Denmark and the Baltic; variable also over Italy. Subsequently increasing to a slight gale from the South-Westward at some stations in the north and east of Scotland.

Barometer highest, 30·51 ins. at St. Petersburg; 30·50 ins. at Moscow; 30·4 ins. and upwards over the central parts of Russia generally, as well as in another area lying over the greater part of England, the Netherlands, and the north of France. Lowest, 29·8 ins. and less in a depression over the south of Italy and a considerable portion of south-eastern Europe; 30·0 ins. and less in another disturbance off the north-west of Norway. New depression skirting our own extreme north-west coasts at night.

Friday, 8th October.

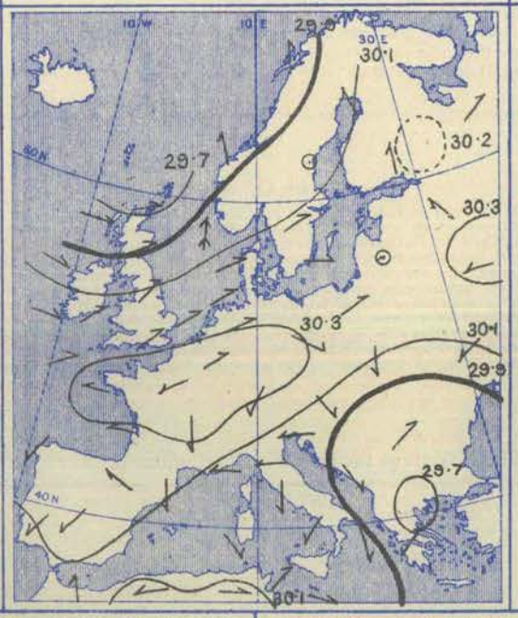
Temperature and Weather. — 8 a.m.

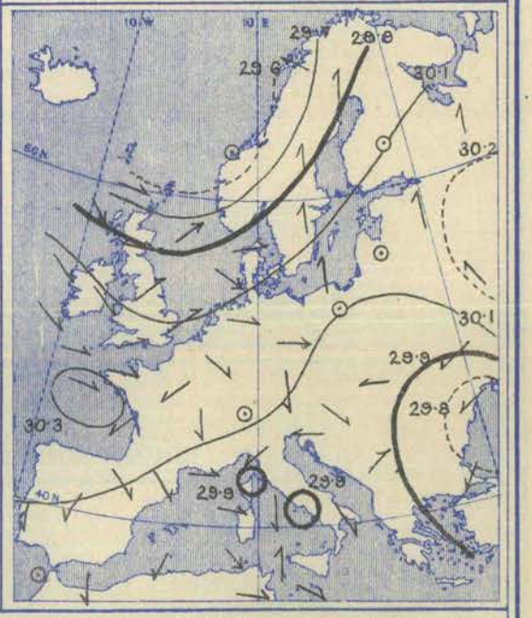


Weather in morning cloudy or dull over north-western and northern Europe generally, with passing showers at some of our own north-western stations, and with steady rain in the Shetlands, as well as at many of the Russian stations. Fine in the extreme south-east of England, and also over France and the Spanish Peninsula; dull over Italy and Austria, with rain at Buda-Pesth and snow at Vienna. A little rain falling later over the northern parts of our Islands generally, and also over the south-east of England and the adjacent portions of the Continent; larger quantities reported in the extreme south of Russia.

Temperature risen in our Islands, as well as in Sweden, Denmark, Germany, and Spain; changed irregularly elsewhere. Morning readings highest, 68° at Lisbon, Athens, and Algiers, 64° at Malta and Sfax, and 63° at Palermo and Oran. Lowest, (1) 29° at Moscow, and 34° at Helsingfors and St. Petersburg; (2) 30° at Paris, 32° at Limoges, and 33° at Belfort, Lyons, and Munich. Daily maxima below 55° at several of our own northern and eastern stations, and below 60° in most other parts of the country. Thermometer exceeding 70° in Spain and the south of Italy, the highest reading of all being 81° at Lisbon and San Fernando.

Barometer and Wind. — 8 a.m. and 6 p.m.



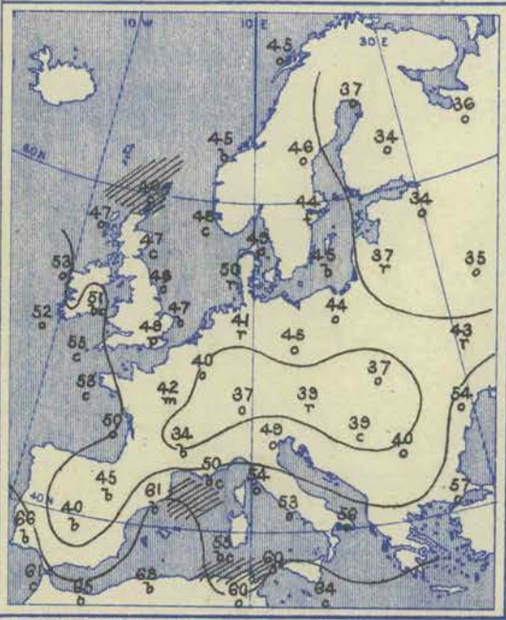


Wind light to fresh from the South-Westward over our Islands generally and also over Denmark and the Netherlands; Southerly in the west of Norway, with a gale at Skudesnaes. North-Easterly (North to East) over France, Spain, Italy, and western Germany; North-Westerly or Westerly over eastern Germany, Austria, and the Adriatic, Westerly over the Baltic, Southerly in Finland, calm in the north of Sweden. Subsequently veering to the Westward or North-Westward in all the more western and northern parts of our Islands; Southerly breezes setting in over Sweden.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over Germany, the Netherlands, the north of France, and the extreme south-east of England, as well as in another system lying over central Russia. Lowest, 29·7 ins. and less in a large depression lying to the northward of our Islands, and also (apparently) in another disturbance over Greece. Northern depression subsequently travelling north-eastwards, but shallow secondary disturbances appearing over various parts of Great Britain.

Saturday, 9th October.

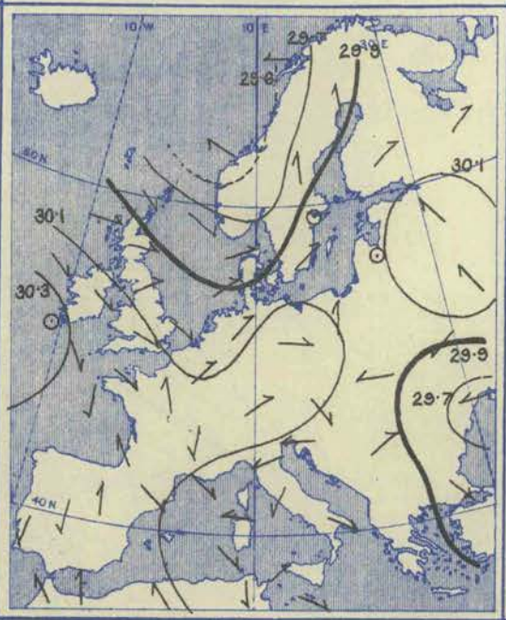
Temperature and Weather. 8 a.m.

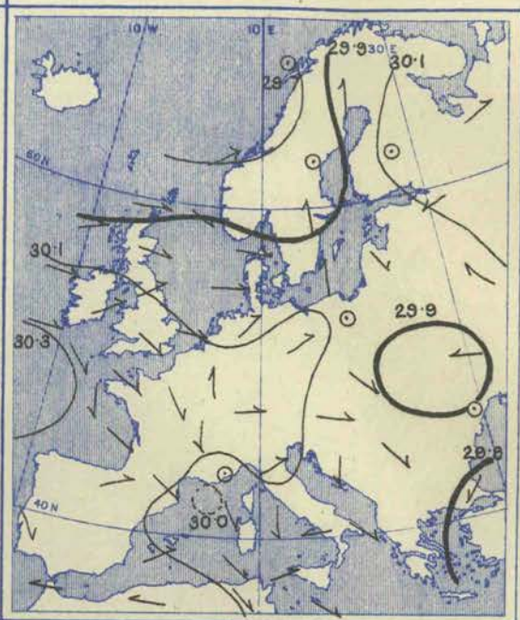


Weather in morning fair or fine over western Europe as a whole, but dull in the west and south of Ireland; showers reported in London and at Malin Head. Dull in the eastern, central, and southern parts of the Continent generally, with rain in many parts of Denmark, Germany, Austria, and the south of Russia. Thunderstorm reported at Helsingfors. Rain falling later at several of our own western and northern stations, as well as in Norway—heavily at Sumburgh Head; large quantities falling also at Prague, Lemberg, and Palermo.

Temperature fallen in the west and north of our Islands, and also in the west of Norway, but risen in most other localities. Morning readings highest, 68° at Algiers, 66° at Lisbon, 65° at Nemours, and 64° at Malta; above 55° at most of the Mediterranean and Spanish coast stations. Lowest, (1) 30° at Limoges, 31° at Belfort, and 34° at Lyons; (2) 33° at Helsingfors, and 34° at Kuopio and St. Petersburg. Daily maxima below 55° in many parts of our Islands, and very little above it at any but our extreme southern stations. Thermometer exceeding 60° in the west and south of France, and exceeding 70° over Spain and southern Italy, the highest reading of all being 82° at San Fernando.

Barometer and Wind. 8 a.m. 6 p.m.





Wind light to moderate from the North-Westward or Westward over our Islands and the adjacent parts of the Continent; South-Westerly or Southerly over Denmark, the Baltic, Sweden, and northern Russia; South-Easterly or Easterly in the west of Norway. Light from the Southward in the south-west of France; Northerly over the Spanish Peninsula and the extreme south of France; variable over Italy, Austria, and the south of Russia. Subsequently backing to the Southward of West at many of our own western and northern stations; shifting to the Westward in Denmark, and also in the south-west of France.

Barometer highest, 30·3 ins. and upwards in an anticyclone extending from the Atlantic over the south of Ireland; 30·1 ins. and upwards in another area over central Russia. Lowest, 29·6 ins. and less in a large depression lying off the west of Norway; 29·7 ins. and less in another disturbance over the extreme south of Russia. Anticyclone off our south-west coasts subsequently receding southwards, and new depression beginning to advance towards the north of Scotland.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of last week an anticyclone lay over Scandinavia, and another to the south-westward of our Islands, the two systems being separated by a "V"-shaped depression which lay over the North Sea, and which occasioned fresh North-Westerly winds and showery weather over the greater part of the United Kingdom. The depression, however, soon dispersed, while the two anticyclones united and formed one large system which covered nearly the whole of northern and north-western Europe. In the extreme west and north of our Islands the weather was affected for the most part by depressions moving out of the Atlantic, but over the north-western and northern countries generally the conditions were fair and dry, with North-Easterly breezes in the more southern regions, and South-Westerly breezes in the north. Over central and southern Europe the conditions were far less settled, a large depression which formed over Italy occasioning very strong winds from various directions over the Mediterranean and Adriatic, with heavy falls of rain in Italy, and snowstorms in many parts of Austria and south Germany. After the 6th, however, the depressions moved away to the eastward, and the weather in the south gradually improved.

On the 7th the anticyclone began to divide again, one portion moving off eventually to the north-eastward, and the other to the south-westward. A large depression now advanced over Scandinavia from the Atlantic, while secondary disturbances were developed over our Islands and the North Sea, the weather in the north-west and north consequently falling into a very unsettled state. Quite at the close of the week the anticyclone in the south-west was spreading eastwards, but the change appeared to be quite temporary.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 236.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	28·6	+ 7·8	37	+10	EASTBOURNE	42·0	+ 8·5	54	+12
OSWALDKIRK (Yorkshire)					VENTNOR	38·5	?	49	?
WORKSOP	28·6	+ 3·9	37	+ 7	SOUTHPORT	29·4	?	38	?
THURCASTON (Leicestershire)	36·7	+13·4	47	+18	COLWYN BAY	27·6*	?	35	?
MARGATE	41·3	+13·3	53	+18	NEWQUAY	29·0	- 1·9	37	0
WESTBOURNE (Sussex)	43·8*	+12·3	56*	+17	TORQUAY	31·6*	+ 0·6	41*	+ 3
BRIGHTON	45·9	+12·9	59	+19	GUERNSEY	40·8*	+ 7·8	52*	+11

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder, and at Colwyn Bay also the record is, temporarily, that of a Jordan's Recorder.

WYMAN & SONS, LTD. LITH. 63, CARTER LANE.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

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VOL. XIV No 41.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 16TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 242.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	57	27	48·3	36·9	42·5	4 below	25	−17	14	+ 9	1918	+136	636	+ 1
	1. SCOTLAND, EAST	63	25	50·9	36·6	43·6	3 below	34	−12	15	+ 9	2143	− 12	687	+ 24
	2. ENGLAND, N.E.	63	25	53·6	39·8	46·5	2 below	41	−17	6	+ 4	2368	+ 38	477	− 75
	3. ENGLAND, EAST	66	32	56·7	42·5	49·4	0 (average)	52	−14	0	− 3	2807	+119	497	−124
	4. MIDLAND COUNTIES	64	29	55·4	42·4	48·7	0 (average)	47	−15	0	− 5	2730*	+ 55	514	−113
	5. ENGLAND, SOUTH	66	36	58·6	46·6	52·5	2 above	74	+ 1	0	− 2	3111	+194	297	−183
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	23	51·7	40·0	45·6	2 below	34	−20	6	+ 3	2303	+ 43	451	− 16
	7. ENGLAND, N.W.	61	33	54·2	44·6	49·3	0 (average)	51	−10	0	− 2	2582	+106	367	− 95
	8. ENGLAND, S.W.	64	29	57·4	47·4	52,3	2 above	72	+ 4	0	− 1	2928	+203	223	−140
	9. IRELAND, NORTH	59	30	52·6	41·6	46·9	1 below	36	−18	1	− 1	2366	− 12	404	+ 6
	10. IRELAND, SOUTH	60	31	56·3	45·3	50·7	1 above	·61	− 1	0	− 2	2809	+121	242	− 61
	—CHANNEL ISLANDS	66	42	60·3	51·7	55·9	2 above	97	+ 8	0	0	3393	+311	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 242.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	16	4 more	184	− 3	34·1	− 2·3	13	− 5	18	− 6	1115	+150	29	+ 4
	1. SCOTLAND, EAST	5	15	7 more	165	+12	23·7	− 0·8	22	+ 1	31	+ 3	1235	+ 86	33	+ 3
	2. ENGLAND, N.E.	4	11	4 more	147	+ 4	20·0	− 0·1	28	+ 6	38	+10	1321	+169	35	+ 5
	3. ENGLAND, EAST	3	2	5 less	142	+ 3	19·1	− 0·8	24	− 2	32	− 2	1450	+ 84	39	+ 3
	4. MIDLAND COUNTIES	4	7	0 (average)	141	+ 5	22·2	+ 0·4	20	− 3	27	− 3	1381	+149	37	+ 4
	5. ENGLAND, SOUTH	3	3	5 less	135*	+ 3	21·7*	− 0·2	23	− 4	30	− 5	1503	+ 67	40	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	17	5 more	177	+17	35·1	− 1·1	24	+ 2	33	+ 3	1278*	+ 40	33	+ 1
	7. ENGLAND, N.W.	6	13	4 more	164	+16	27·4	+ 1·2	15	+ 1	21	0	1365	+106	35	+ 3
	8. ENGLAND, S.W.	6	10	1 less	169	+20	34·1	+ 5·1	16	− 11	21	−14	1480	+ 2	40	0
	9. IRELAND, NORTH	6	18	9 more	190	+16	32·5	+ 4·1	18	− 4	25	− 4	1152	+ 34	31	+ 1
	10. IRELAND, SOUTH	6	29	21 more	178	+22	35·9	+ 6·5	21	− 5	29	− 4	1240	− 31	33	− 1
	— CHANNEL ISLANDS	5	11	2 more	178	+22	28·7	+ 4·6	16	−13	21	−16	1541	−145	42	− 4

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was unsettled and very rainy over Ireland, Scotland, and the western and south-western parts of England, while over the south-east and south of England the condition, although rainy at times, was, as a whole, fair and dry. Snow and sleet were experienced over the north of Scotland on Tuesday or Wednesday, and thunderstorms occurred at some of the south-western stations towards the end of the week.

Temperature varied a good deal in different parts of the period. It was low for the time of year during the first half of the week, but high later. Over Scotland, England N.E., and Ireland N. the average for the week was below the mean—by as much as 4° in Scotland N. In England E., the Midland counties, and England N.W., it just equalled the normal, while in England S. and S.W., Ireland S., and the Channel Islands it was rather in excess. The highest of the maxima were recorded on the 16th, when they varied from 66° in England E. and S. and the Channel Islands, to 58° in Scotland W., and 57° in Scotland N. The lowest of the minima were registered about the middle of the week, and ranged from 23° in Scotland W. and 25° in Scotland E. and England N.E. to 32° in England E., 36° in England S., and 42° in the Channel Islands. At the end of the week the minima were high, the thermometer not falling to 50° excepting in the north and north-west.

Rainfall was much more than the mean over the greater part of the Kingdom, but only just equalled it in the Midland counties, and was below it in England S., S.W., and E. In Ireland S. the fall was more than three times the mean value.

Bright Sunshine showed a deficiency in most districts, especially over the Channel Islands, but slightly exceeded the normal in Scotland E. and W., and in England N.E. The percentage of the possible duration ranged from 38 in England N.E. to 21 in England N.W. and S.W. and the Channel Islands, and to 18° in Scotland N.

Barometer and Wind.—During the earlier days of the period the barometer was highest in the south, and a rather important depression spread over the northern parts of our area as it moved north-eastwards to Scandinavia. The system, after causing fresh or strong South-Westerly to North-Westerly breezes over the country generally, filled up over Norway. A "col" then passed over us from the south-westward, but by the middle of the week depressions began to appear off our south-west coasts, and these, increasing gradually in size and intensity, caused strong winds and gales in all the western and northern districts—from East and South-East in Scotland, and from between South-East and South-West in Ireland.

*This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 241 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head ℒ	52	31	47·6	36·9	42·1	− 4·0	22	14	7	1·68	+ 0·73	*	*	*	*
	Stornoway	52	33	46·3	36·9	41·5	− 4·4	12	20	7	1·69	+ 0·57	13·9	− 6·6	19	− 8
	Wick ℒ	56	32	49·0	37·4	43·0	− 3·4	26	13	7	1·02	+ 0·35	*	*	*	*
	Lairg ℒ	56	29	49·8	34·3	41·8	− 2·9	22	31	7	1·15	+ 0·27	*	*	*	*
	Glencarron ℒ	57	30	47·2	37·4	42·2	− 3·3	21	13	7	2·67	+ 0·68	*	*	*	*
	Fort Augustus ℒ	56	27	48·6	36·7	42·5	− 4·7	26	15	6	0·93	− 0·03	10·8	− 3·8	15	− 4
	Fort William ℒ	55	28	49·9	38·7	44·1	− 3·7	29	9	6	1·78	+ 0·01	13·6	− 5·8	19	− 6
1. SCOTLAND, E.	Nairn	58	30	49·4	35·7	42·4	− 4·1	29	18	6	0·58	− 0·02	*	*	*	*
	Aberdeen	63	32	50·9	38·9	44·7	− 2·6	32	9	7	1·81	+ 1·09	29·8	+ 7·0	41	+10
	Braemar ℒ	56	26	46·5	34·1	40·1	− 3·6	13	29	6	1·50	+ 0·65	16·3†	− 3·3†	22†	− 3†
	Ochtertyre ℒ	60	25	53·0	36·9	44·7	− 2·1	40	14	5	2·49	+ 1·55	*	*	*	*
	Leith	61	30	54·7	38·0	46·1	− 2·5	46	11	3	0·82	+ 0·34	*	*	*	*
	Marchmont ℒ	59	25	51·0	36·1	43·3	− 2·9	34	17	4	1·54	+ 0·75	20·5	− 0·2	28	0
2. ENGLAND, N.E.	Alnwick Castle	56	27	51·6	38·3	44·8	− 2·5	35	10	3	1·80	+ 1·08	*	*	*	*
	Durham	58	25	52·8	38·1	45·2	− 2·3	39	11	2	1·05	+ 0·37	27·0	+ 5·0	36	+ 8
	Shields	61	30	54·1	37·9	45·8	− 1·6	44	11	2	0·91	+ 0·33	*	*	*	*
	Scarborough ℳ	61	32	54·3	41·1	47·5	− 1·4	42	3	4	1·09	+ 0·37	28·4	?	38	?
	York	63	32	54·7	38·4	46·3	− 2·0	45	10	5	1·04	+ 0·42	30·5	+ 8·0	41	+12
	Spurn Head	61	40	54·0	44·7	49·2	− 0·9	50	0	5	0·43	− 0·10	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	65	33	56·7	41·9	49·1	+ 0·1	50	0	4	0·23	− 0·42	22·9	− 1·4	31	− 1
	Yarmouth	63	38	54·9	43·3	48·9	− 1·3	48	0	3	0·12	− 0·60	*	*	*	*
	Geldeston	66	33	56·7	41·5	48·9	− 0·9	50	1	2	0·08	− 0·56	25·4	− 2·8	34	− 3
	Cambridge	65	38	57·9	42·6	50·0	+ 0·7	56	0	4	0·15	− 0·40	23·7	− 2·4	32	− 2
	Rothamsted	64	32	57·1	43.2	49·9	+ 1·5	55	0	2	0·18	− 0·52	23·4	− 3·0	31	− 3
4. MIDLAND COUNTIES	Harrogate ℳ															
	Bawtry (Hesley Hall)	63	34	56·1	40·1	47·9	− 0·3	49	5	4	0·58	− 0·05	*	*	*	*
	Loughborough	64	38	56·7	43·1	49·7	+ 0·9	54	0	5	0·75	+ 0·11	*	*	*	*
	Stamford (Duddington)	63	35	56·3	41·9	48·9	− 0·4	49	0	3	0·27	− 0·43	*	*	*	*
	Cheadle ℳ	60	35	53·0	43·1	47·9	+ 0·3	41	0	5	0·76	− 0·01	*	*	*	*
	Shirley (near Solihull)	61	37	54·2	42·8	48·3	+ 0·3	44	0	6	0·88	?	*	*	*	*
	Churchstoke ℳ	61	32	54·7	42·0	48·2	+ 0·6	43	0	6	1·10	+ 0·31	12·1	−10·4	16	−14
	Hereford ℳ	63	29	55·4	42·0	48·5	− 0·1	46	0	5	0·88	+ 0·23	*	*	*	*
	Cirencester	62	33	55·7	42·4	48·9	+ 1·1	48	0	4	0·81	+ 0·08	22·8	− 0·6	30	− 1
	Oxford	63	36	56·9	44·1	50·3	+ 1·0	58	0	2	0·57	− 0·08	22·5	− 2·5	30	− 3
5. ENGLAND, S.	London	66	36	59·1	45·3	52·0	+ 2·0	70	0	3	0·07	− 0·56	20·9†	+ 1·5†	28†	+ 1†
	North Foreland	65	39	57·4	46·6	51·8	+ 0·8	69	0	5	0·09	?	*	*	*	*
	Dungeness	65	39	59·7	46·4	52·9	+ 1·1	76	0	1	0·01	− 0·77	*	*	*	*
	Hastings (St. Leonards)	64	40	58·7	46·4	52·4	+ 0·9	73	0	1	0·02	− 0·87	23·6	− 6·7	31	− 9
	Southampton	64	37	59·9	46·8	53·2	+ 2·1	78	0	4	0·54	− 0·26	20·4	− 6·6	27	−10
	Hurst Castle	62	42	59·6	49·6	54·5	+ 2·6	88	0	2	0·59	− 0·21	*	*	*	*
	Shaftesbury ℳ	60	38	56·0	45·4	50·5	+ 2·4	60	0	4	0·79	− 0·10	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	56	27	50·9	38·0	44·3	− 3·6	33	11	7	1·60	− 0·17	*	*	*	*
	Glasgow	56	28	50·2	39·1	44·5	− 2·5	30	8	4	1·52	+ 0·66	27·8	+10·8	38	+14
	Ardrossan	57	32	51·9	40·1	45·8	− 3·1	35	5	5	1·41	+ 0·56	*	*	*	*
	Glenlee ℒ	58	23	51·4	37·1	44·0	− 3·3	35	14	4	2·73	+ 1·43	*	*	*	*
	Gilcrux (Cumberland)	57	33	50·8	41·7	46·1	− 1·7	30	1	6	1·23	?	24·7	?	33	?
	Douglas (Isle of Man)	58	33	54·8	43·7	49·1	+ 0·3	50	0	7	1·45	+ 0·46	20·7	− 6·4	28	− 8
7. ENGLAND, N.W.	Stonyhurst	58	33	51·3	41·5	46·3	− 1·5	32	1	6	1·95	+ 0·78	22·1	− 0·9	30	0
	Blackpool ℳ	61	35	55·6	43·2	49·2	− 0·2	50	0	7	1·32	+ 0·37	17·2	− 5·3	23	− 7
	Manchester (Prestwich)	61	34	53·6	42·4	47·8	− 0·5	41	0	5	1·51	+ 0·58	14·5	?	20	?
	Liverpool Obsy. (Bidston)	61	40	54·7	45·4	49·9	+ 0·2	55	0	7	1·08	+ 0·26	*	*	*	*
	Llandudno ℳ	60	42	54·8	48·7	51·7	+ 0·8	68	0	7	0·75	− 0·15	12·3	− 7·7	17	−10
	Holyhead	59	42	55·3	46·1	50·6	− 0·7	60	0	6	1·28	+ 0·30	*	*	*	*
8. ENGLAND, S.W.	Llandovery	62	29	57·4	40·4	48·7	+ 0·8	54	4	7	1·42	+ 0·17	*	*	*	*
	Pembroke	60	43	56·7	49·6	53·1	+ 1·2	78	0	3	0·90	− 0·03	16·1	− 9·9	21	−13
	Clifton												*	*	*	*
	Arlington (N. Devon)	61	34	56·3	45·7	50·8	+ 1·3	62	0	6	1·11	− 0·24	*	*	*	*
	Cullompton ℳ	64	34	58·8	46·3	52·4	+ 3·3	73	0	6	0·96	+ 0·06	18·8	− 4·9	25	− 6
	Falmouth	61	49	57·7	51·8	54·7	+ 2·6	89	0	5	1·28	+ 0·06	16·4	−12·6	22	−15
	Plymouth	60	44	57·3	49·4	53·2	+ 1·4	78	0	6	0·49	− 0·41	14·8	−11·4	20	−16
	Prawle Point	60	44	57·6	48·9	53·1	+ 1·2	78	0	7	0·82	− 0·01	*	*	*	*
9. IRELAND, N.	Malin Head	57	36	51·1	42·6	46·7	− 2·7	33	0	7	1·40	?	*	*	*	*
	Londonderry	58	30	50·8	40·8	45·7	− 2·7	31	3	6	1·92	+ 0·95	*	*	*	*
	Edenfel (Omagh)	58	32	52·3	40·6	46·3	0·0	36	4	6	2·61	+ 1·75	*	*	*	*
	Belmullet	58	40	53·4	45·4	49·3	− 0·8	51	0	7	1·58	+ 0·42	*	*	*	*
	Markree Castle	59	34	52·3	41·0	46·5	− 1·3	36	3	6	1·95	+ 0·95	15·0	− 6·2	20	− 8
	Armagh	59	32	53·0	39·7	46·2	− 1·3	39	6	6	1·43	+ 0·75	21·8	− 1·2	29	− 1
	Donaghadee	59	36	54·1	41·9	47·8	− 1·1	41	0	7	1·43	+ 0·73	*	*	*	*
	Edgeworthstown	59	32	53·6	40·7	47·0	− 0·5	40	4	4	2·16	+ 1·46	*	*	*	*
10. IRELAND, S.	Dublin	60	36	55·3	44·9	50·0	+ 0·2	56	0	6	1·30	+ 0·64	24·5	− 2·5	33	− 3
	Parsonstown	59	31	55·1	41·1	47·9	+ 0·1	45	3	5	1·80	+ 1·08	24·4	− 0·1	33	0
	Kilkenny	59	32	56·1	42·6	49·2	+ 0·4	50	0	6	2·60	+ 1·92	*	*	*	*
	Roche's Point	60	40	57·6	48·1	52·7	+ 1·5	75	0	6	3·73	+ 2·83	*	*	*	*
	Valencia	60	46	57·9	49·4	53·5	+ 1·8	81	0	7	3·78	+ 2·58	15·2	−10·1	20	−13
	Killarney	60	38	56·6	46·6	51·5	+ 1·3	67	0	5	4·81	?	*	*	*	*
	Foynes	59	36	55·4	44·6	49·8	+ 0·7	55	0	5	2·39	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	49	59·6	51·3	55·3	+ 1·6	93	0	5	1·06	+ 0·18	11·4	?	15	?
	Jersey	66	42	61·0	52·0	56·4	+ 2·3	101	0	5	1·16	+ 0·13	17·7	+13·9	23	−19

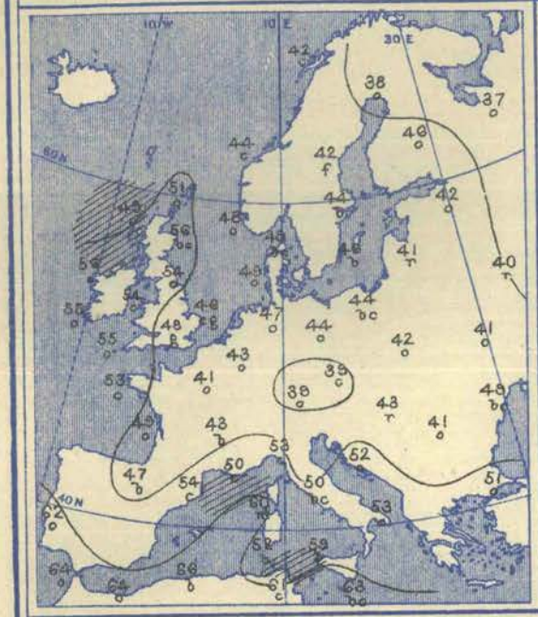
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℒ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

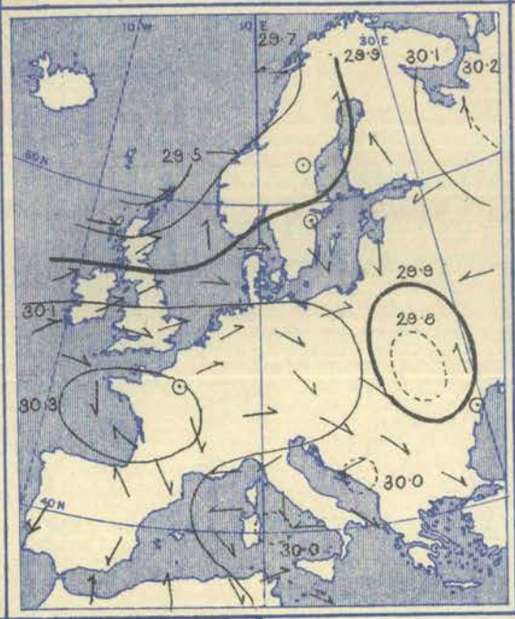
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 10th October.

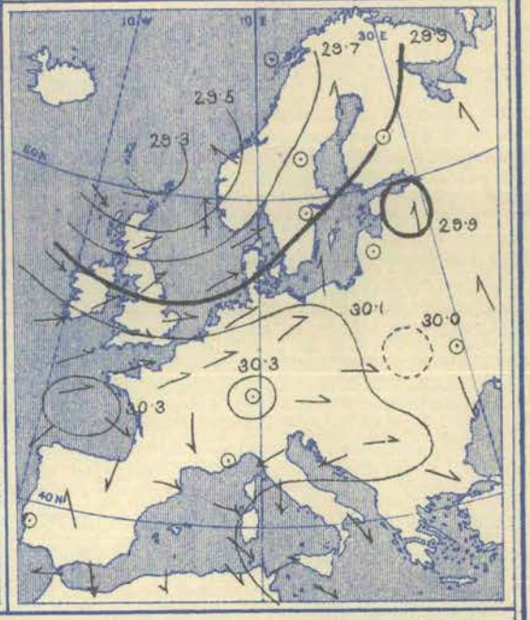
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean, as well as over the south of Sweden; foggy over France; dull elsewhere, especially over the United Kingdom; rainy on our north and north-west coasts, and locally in some parts of Russia and Austria. Considerable rain later at Bodö, and over the northern parts of our Islands, slight falls in other parts of our Islands, Belgium, and Germany, and considerable quantities over some parts of Italy, Hungary, and the south of Russia.

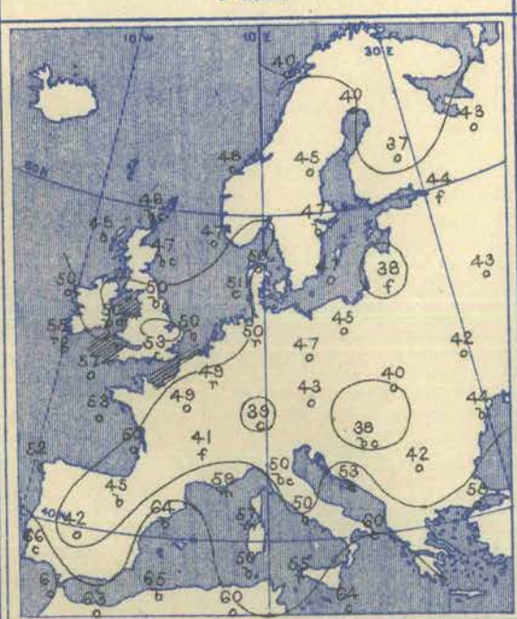
Temperature risen decidedly over Scotland and the North Sea, still low over England. Morning readings highest, 66° to 60° on the southern and western shores of the Mediterranean, and on the Portuguese coast; very irregularly distributed over the British Islands, but as high as 56° at Belmullet and Aberdeen. Lowest, 37° at Archangel, 38° at Uleaborg, 40° at Moscow, 34° at Lemberg, 39° at Prague, 41° at Hermanstadt. Touching 60° later at Scilly, Loughborough, and Leith; 63° at Aberdeen and at Nice; not exceeding 56° in London and 57° at Paris, but rising to 84° at Oporto, 77° at Lisbon, and 68° at Palermo.

Wind light and anticyclonic over the Bay of Biscay, France, and West Germany; light from South-East and East over Russia; moderate to strong from West and South-West over our Islands, and light over the North Sea. A cyclonic circulation of light breezes prevailing over Poland and western Russia. Blowing a gale from North-West on our north-west coasts later, and from South in the south of Norway.

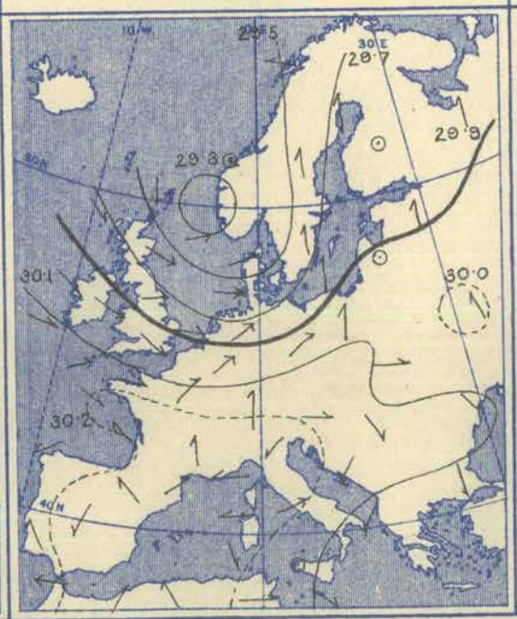
Barometer highest, 30·3 ins. and more to 30·2 ins. in an anticyclone covering France, Germany, the Netherlands and southern parts of our Islands. Lowest, below 29·5 ins. in a depression over the Netherlands and adjacent parts of the Atlantic. The depression advancing towards Norway later, but its southern parts spreading southwards over the greater part of our Islands.

Monday, 11th October.

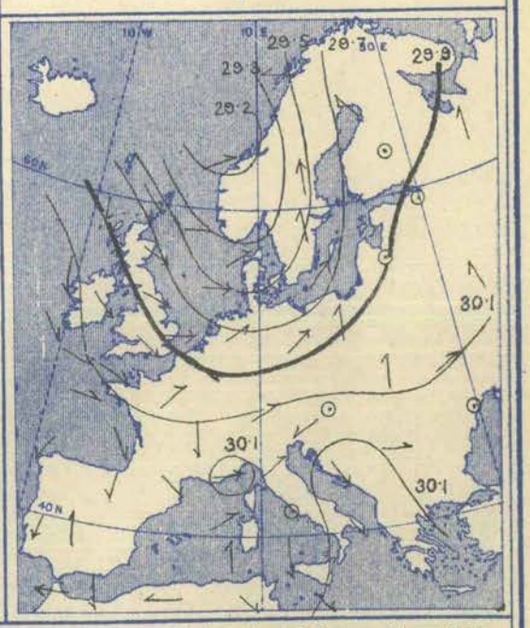
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the Mediterranean and several parts of south-western Europe, fair over England, but cloudy and changeable over the north-western counties generally, with showers in many places, and very squally weather in the north-east of Scotland and at Holyhead. Considerable rain falling later over northern Europe and smaller quantities in the north and west of our Islands, fine over Wales, the central and eastern parts of England, and all the southern parts of France. Lunar halos seen in the south and south-east of England.

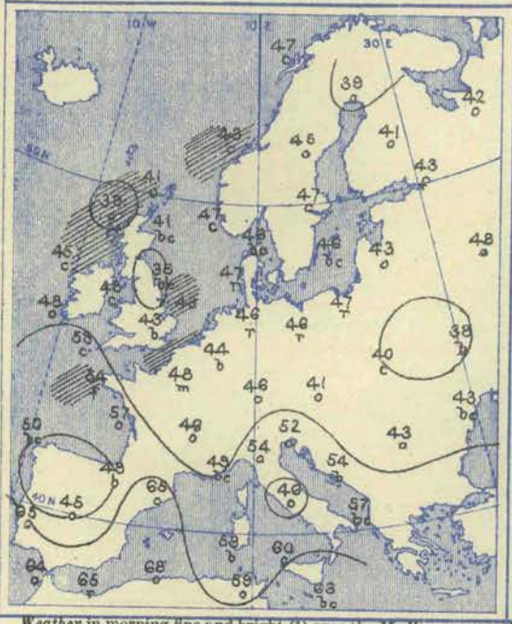
Temperature fallen decidedly at our northern stations, risen decidedly over Sweden and Norway. Morning readings highest, 67° at San Fernando, 66° at Lisbon, 65° at Algiers, 60° at Brindisi, 58° at Jersey, 57° at Scilly and Hurst Castle, 55° at Valencia (Ireland). Lowest, (1) 37° at Kuopio, 38° at Helsingfors; (2) 45° at Stornoway and Nairn; (3) 37° at Warsaw, 40° at Lemberg, 42° at Vienna, Kieff and Hermanstadt. Touching 60° or a little more later, at a few of our extreme southern stations, and 63° to 66° on the west and south coasts of France. Failing fast all over the British Islands as night came on.

Wind (1) light and very variable over the southern half of Continental Europe; (2) very fresh from North-West and West over our Islands (very strong and squally in the north-east of Scotland), strong from between West and South on the eastern shores of the North Sea. Blowing a gale from North-West in the north-east of Scotland later, and strongly on our north-western coasts.

Barometer highest, 30·3 ins. at Madrid, and ranging between 30·3 ins. and 30·1 ins. over all the southern half of Europe—exceeding 30·0 ins. over the southern half of Russia. Lowest, 29·3 ins. and less to 29·4 ins. in a depression lying off the west coast of Norway. Gradients steep over Scotland, the North Sea, Denmark and Sweden. Depression moving north-eastwards later over Norway and becoming still deeper. Barometer rising over our northern districts.

Tuesday, 12th October.

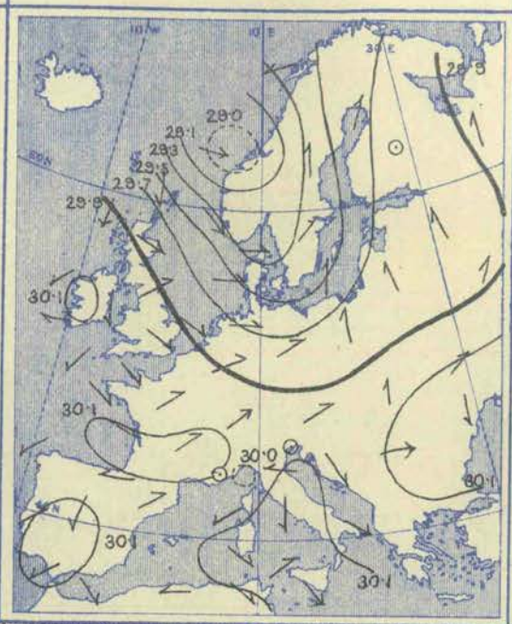
Temperature and Weather. 8 a.m.



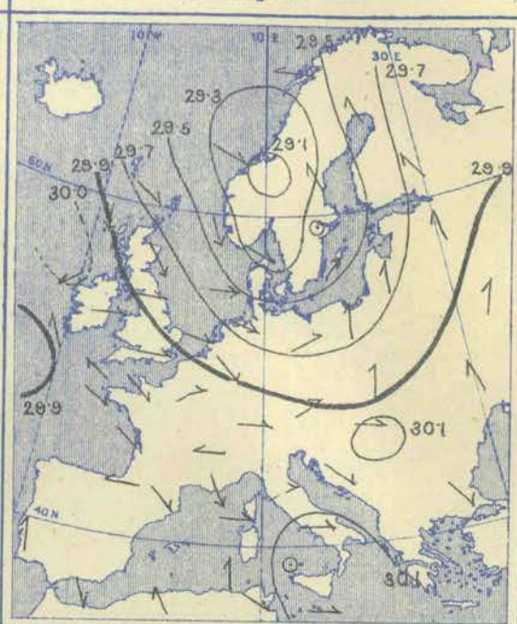
Weather in morning fine and bright (1) over the Mediterranean, the Adriatic, and the south of Russia, (2) over Ireland and England as a whole; dull and changeable elsewhere—squally and very unsettled in the north-east of Scotland, rainy at several stations in Germany and on the eastern shores of the North Sea. A great deal of cold rain falling later at several of the Continental stations, and sleet and hail in the north-east of Scotland; a great deal of warm rain in the Scilly Islands, and later on over the south of Ireland, the Channel Islands, and the north of France.

Temperature fallen very decidedly over the United Kingdom—as much as 16° at Parsonstown, and 13° at York. Morning readings highest, 68° to 60° at many of the Mediterranean stations, 57° to 54° on the western and northern coasts of France, 53° at Scilly. Lowest, (1) 39° at Uleaborg, 41° at Kuopio; (2) 37° to 39° over the southern parts of Russia; (2) 33° at Parsonstown, 38° at Wick, Shields, and Loughborough, 39° at Stornoway, and 40° at Oxford. Not touching 60° in any part of our Islands later, but reaching 63° to 64° in the west and south of France, and 68° at Perpignan. Succeeding night frosty in many parts of Great Britain—especially Scotland.

Barometer and Wind. 8 a.m.



6 p.m.

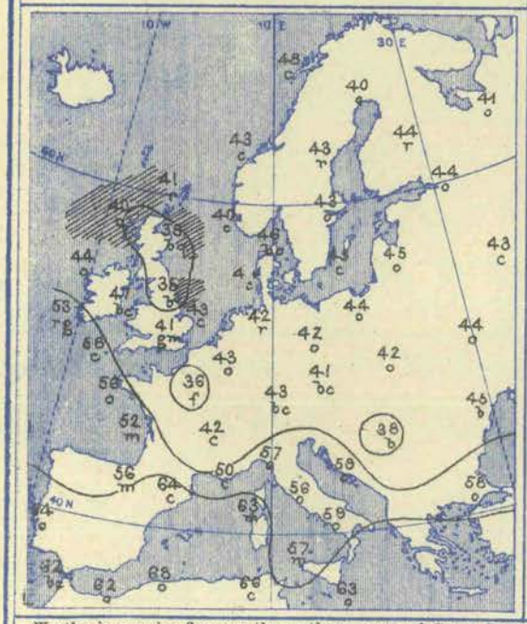


Wind (1) North-Westerly to Westerly over the greater part of our Islands and the North Sea, and blowing strongly at the Scotch and Dutch stations, and at Skudesnaes. South-Westerly to Southerly and fresh over Germany, the Baltic, and Gulfs of Bothnia and Finland—a moderate gale at Hangö; (2) variable and light over the southern half of England. Becoming South-Easterly on our south-western coasts later, but increasing from the North-Westward in the north-east of Scotland.

Barometer highest, 30·1 ins. and more to 30·0 ins. over Ireland, and the south-west of England, and the southern parts of Europe generally, including the Mediterranean. Lowest, below 29·0 ins. in a depression near Christiansund, and below 29·5 ins. over Scandinavia generally. The low-pressure system in the north undergoing considerable modification later, and a new shallow one approaching our south-western coasts from the Atlantic.

Wednesday, 13th October.

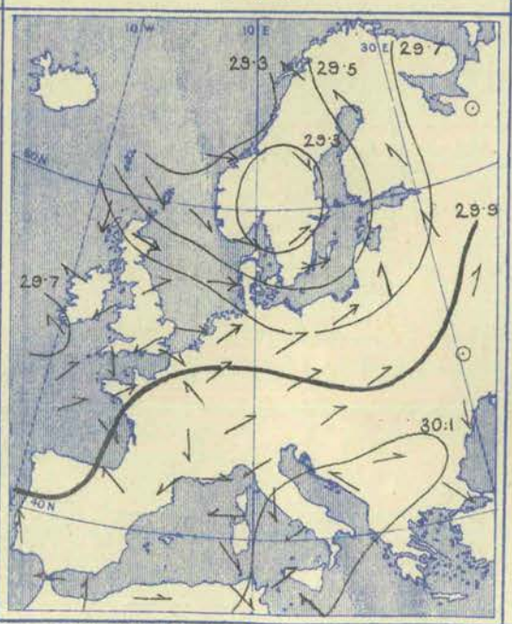
Temperature and Weather. 8 a.m.



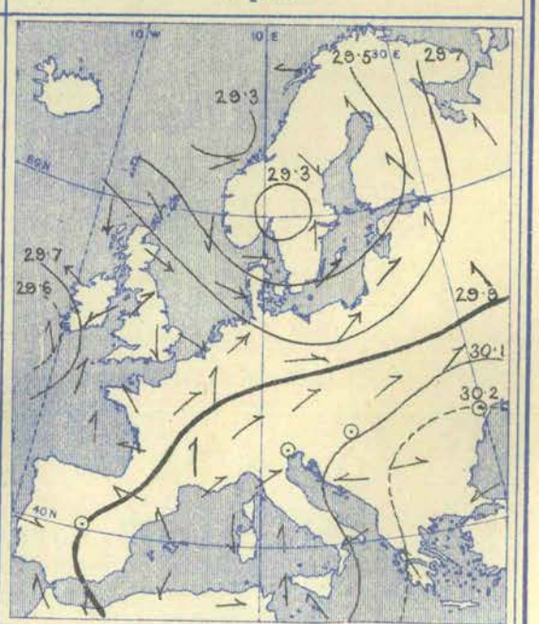
Weather in morning fine over the northern parts of Great Britain as a whole, but dull in the extreme north of Scotland, with rain at Sumburgh Head. Cloudy or dull in the west and south of our Islands, as well as over the greater part of the Continent; rain falling in the south of Ireland and at some of the English Channel stations, as well as in several parts of Finland, Sweden, and north Germany, and at Florence. Fair or fine over Austria and south Germany. Rain falling later over north-western and northern Europe generally—heavily in the south of Ireland and at Cuxhaven.

Temperature fallen in most places, but risen in the south-west of our Islands, as well as in Italy and the south of Russia. Morning readings highest, 68° at Algiers, 66° at La Calle and Sfax, and 64° at Lisbon and Barcelona. Lowest, (1) 33° at Hermanstadt, and 39° at Buda-Pesth; (2) 35° at Shields and York, and 36° at Leith; (3) 30° at Paris. Daily maxima below 50° at most of our own northern stations, and below 55° on all but our extreme south coasts; thermometer exceeding 60° in the west and south of France, and reaching 72° at Biarritz. Frost occurring at night over the northern parts of Great Britain.

Barometer and Wind. 8 a.m.



6 p.m.



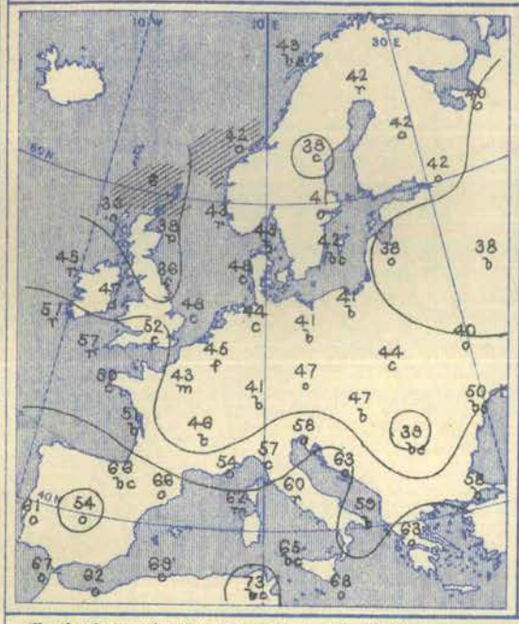
Wind strong to a gale from North-West in the north-east of Scotland, from West over the North Sea and Denmark and from the South-West over the Baltic; moderate from South over the Gulf of Finland and from the South-East or East in the north of Scandinavia. North-Easterly in the extreme south of England, but Westerly or South-Westerly in the north of France, South-Easterly in the south of Ireland. Light from the East or North-East over Spain and the south of France; variable in Italy and Austria; Northerly in the south of Russia. Gale in north-east of Scotland subsiding later. No important change occurring elsewhere.

Barometer highest, 30·1 ins. and upwards over the Baltic Provinces, Italy, and the neighbouring parts of the Mediterranean. Lowest, 29·2 ins. and less in a small depression over the south of Scandinavia; 29·3 ins. and less in a larger disturbance off the west of Norway; 29·7 ins. and less in a third system off the south-west of Ireland. Northern depressions gradually dispersing later; disturbance off the south-west of Ireland spreading slowly eastwards.

Thursday, 14th October.

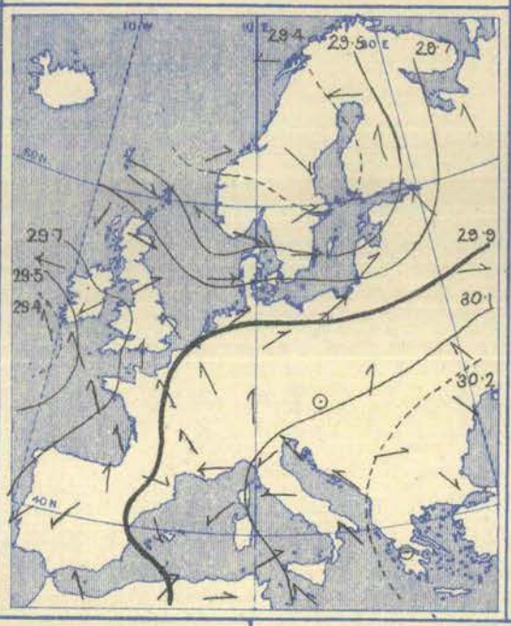
Temperature and Weather.

8 a.m.

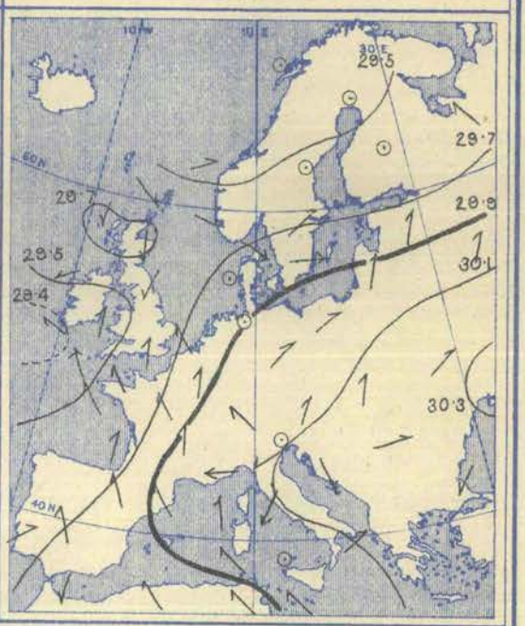


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and quiet over the Mediterranean, central, south-eastern, and eastern Europe, and fair over most of the eastern parts of Great Britain; dull and very changeable elsewhere; with rain at many of the stations in the British Islands and at several in northern Europe, and an angry appearance at Jersey. Much rain later in Ireland and the north-west and north of England, and a considerable fall at Fanö. Very local falls in some parts of the Continent, and some slight showers over England.

Temperature rising quickly over Ireland and England, changing irregularly on the Continent. Morning readings highest, 69° to 60° on the southern and western shores of the Mediterranean, 59° to 50° on the coasts of Brittany, the Channel Islands and the south-western coasts of the British Islands. Lowest, (1) 35° to 40° over the central and southern parts of Russia; (2) 35° to 38° over the northern parts of Great Britain; (3) 43° at Paris. Rising to more than 60° over many parts of England later, to 63° in London, 66° at Paris and Nice, and 70° at Rochefort and to 81° at Biarritz.

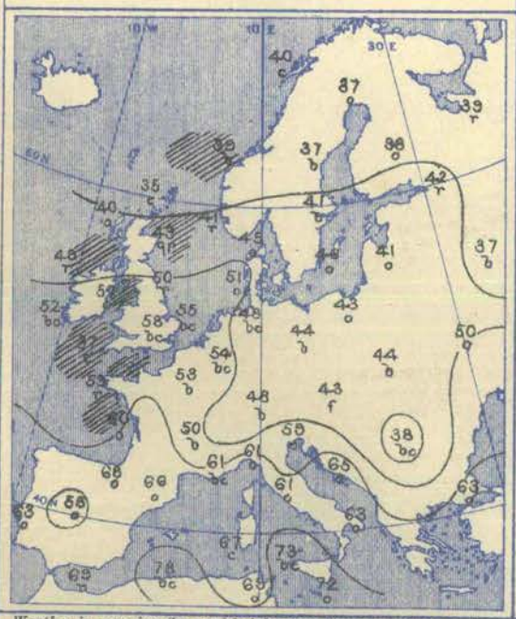
Wind (1) light and variable (anticyclonic) over France, the Mediterranean, south-eastern and eastern Europe; (2) cyclonic over northern Europe—moderate in most places, but blowing a gale from West-South-West over the southern side of the Baltic; (3) cyclonic from between South-East and East over England and Ireland, but not strong anywhere. Not much change later.

Barometer highest, 30·3 ins. to 30·0 ins. over all the south-eastern parts of Europe, and exceeding 29·7 ins. in a "col" stretching north-westwards across the Netherlands and Great Britain to beyond the west of Scotland (apparently a second high-pressure system lay away to the north-westward of our Islands). Lowest, (1) below 29·4 ins. in a shallow depression over Scandinavia and also in another lying to the south-westward of Ireland. Former system filling up later, latter growing deeper.

Friday, 15th October.

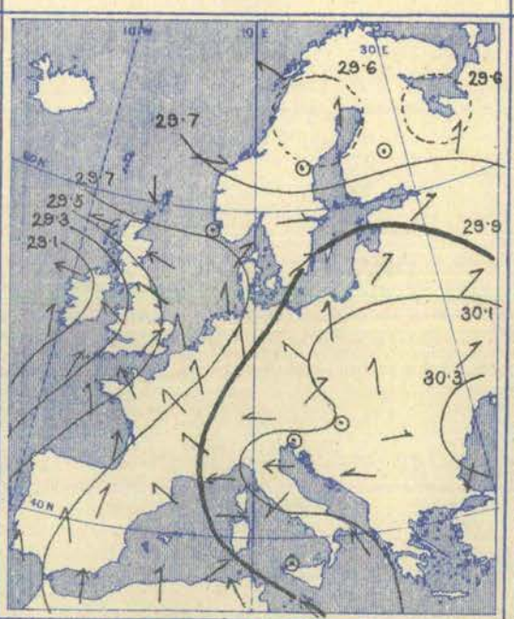
Temperature and Weather.

8 a.m.

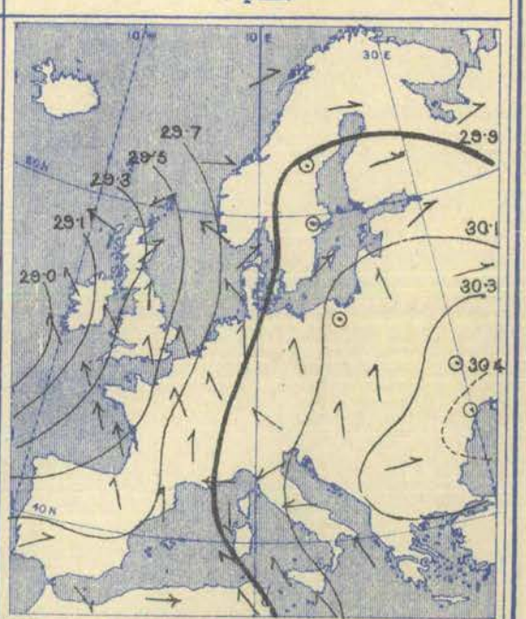


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over France and the north-west of Germany, and in some parts of the British Islands also; dull elsewhere—very rainy over the northern parts of Ireland, England, and the east of Scotland, as well as at some stations over the northern parts of Continental Europe. Much rain falling later in the north and west of the British Islands, as well as at Lisbon and in the south of France; showers locally over northern Europe; thunder and lightning observed at Roche's Point, lightning at Scilly.

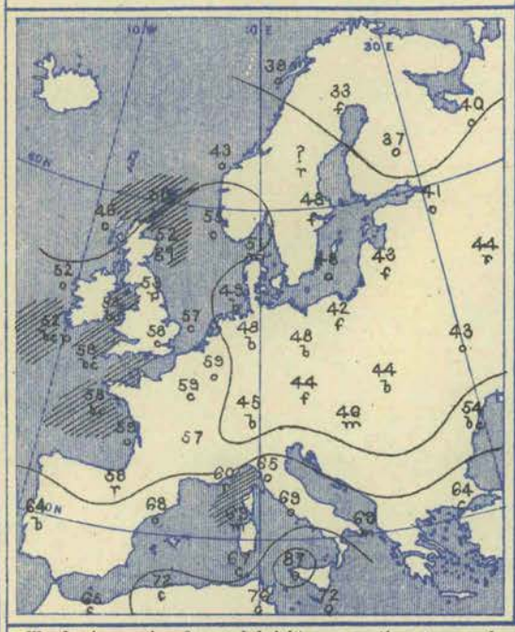
Temperature again risen over the United Kingdom and western Europe, and exceeding the mean for the time of year over Ireland and England. Morning readings highest, 78° at Algiers, 73° at Palermo, and exceeding 60° at nearly all the stations on the south-western, southern, and south-eastern coasts of Europe; 60° at Brest and Hurst Castle, and exceeding 55° over the southern counties of England. Lowest, 37° to 40° over northern Europe as a whole, 35° at Sumburgh Head, 40° at Stornoway and Nairn, 43° at Aberdeen; 38° at Kharkov and Hermanstadt. Rising later to between 60° and 64° over England, to 64° at Berlin, 71° at Paris, 72° at Lyons and Biarritz, 75° at Malta, 77° at Brindisi, and 90° at Algiers.

Wind (1) light and anticyclonic over the south-eastern half of Europe, light, but cyclonic, in the north; (2) cyclonic and moderate to very strong over the British Islands and western Europe—being South-Easterly to Southerly in France and England, Easterly over Scotland and the north of Ireland, and blowing a gale in places. Blowing hard in Scotland later, but subsequently veering Southward over our northern districts generally and moderating.

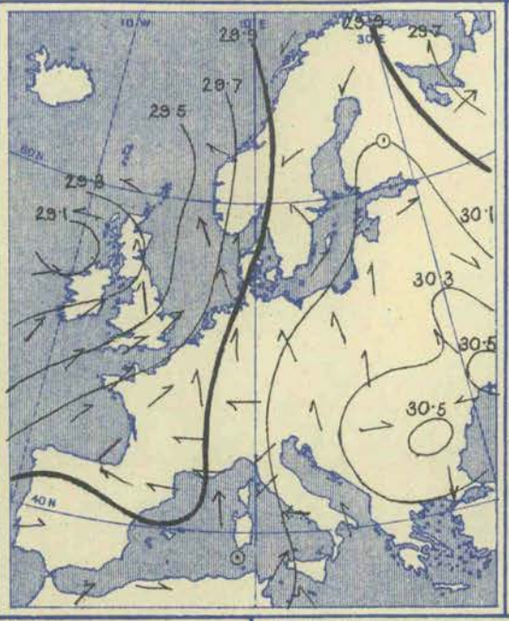
Barometer highest, 30·3 ins. and more to 29·9 ins. in the north-western portion of an anticyclone covering the whole of south-eastern Europe. Lowest, below 29·6 ins. in two shallow depressions—one over the White Sea, the other over the north of Sweden, and below 29·1 ins. in a deeper system lying over the west of Ireland and neighbouring parts of the Atlantic. Latter system moving northwards later very quickly, but a new one approaching Ireland from the south-westward.

Saturday, 16th October.

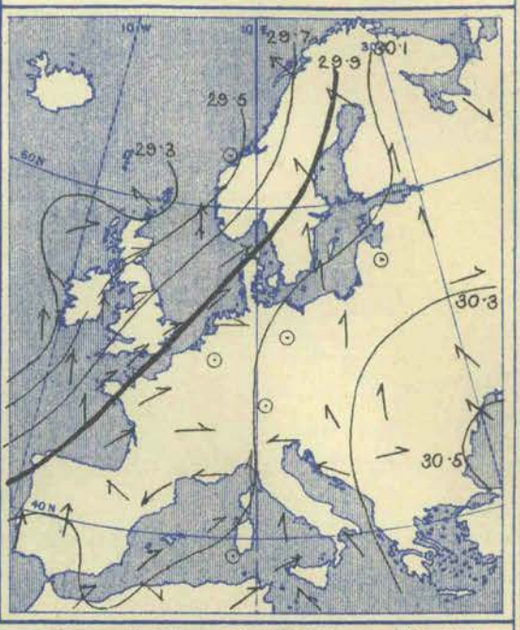
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-eastern and central Europe, as well as over many parts of Great Britain and the south-east of Ireland; cloudy and unsettled elsewhere, with rain at Valencia and on the east and north-east coasts of Scotland, as well as in the south and south-east of France. Heavy rain later over the southern and central parts of Ireland, and considerable falls at several of our north-western and northern stations, and in Norway; slight falls in the south of France; very fine over the south-eastern half of England.

Temperature risen greatly over Scotland and the southern half of Scandinavia, as well as in some parts of Austria-Hungary. Morning readings highest, 76° to 72° at stations on the shores of Algeria and Tunis, and exceeding 60° at many of the coast stations in southern and south-western Europe; 60° at Jersey, and 58° to 55° over the greater part of England. Lowest, (1) 33° at Haparanda, and 34° to 40° over Lapland, Finland, and the north of Russia; (2) 43° to 46° over the southern half of Russia; (3) 36° at Hermanstadt, 43° at Cracow, 45° at Munich. Rising later to between 60° and 66° over England, to 64° at Berlin, 66° at Paris and Nice, 70° at Biarritz.

Wind (1) light and anticyclonic over eastern, south-eastern, and central Europe; (2) cyclonic and strong over our Islands and their neighbourhood, being South-Westerly to Southerly over England and Ireland, South-Easterly and Easterly in Scotland, Southerly over the North Sea. Backing later to South and South-East on our south-western coasts, and blowing very hard at our western stations, and later on in the north-west also.

Barometer in morning highest, 30·50 ins. at Odessa, and exceeding 30·0 ins. over all the south-eastern and eastern countries, together with the Baltic, Finland, and the north of Russia. Lowest, below 29·1 ins. in a depression off our north-western coasts. [illegible]ter system moving northwards later, but another one passing up along the west coas[illegible] of Ireland in the afternoon and night.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During this week there has been a gradual but decided change of weather over our Islands and their neighbourhood, from a period of cold North-Westerly winds and showers of cold rain, hail, and at some of the northern stations snow, to one of warm South-Westerly and Southerly winds and gales, heavy rain at our western and north-western stations, but very little over the south-eastern parts of England.

The first of these conditions prevailed until Wednesday, during which time pressure was highest over western and south-western Europe, and lowest in the north. The only primary depression observed was that which reached the north of Scotland on Sunday, and the north-west of Norway on Monday; but its secondary system spread southwards over the North Sea and Denmark; the Northerly and North-Westerly winds blew hard for a time over Scotland, and were of a very searching and unpleasant character generally.

Between this spell and the warmer weather there was a "col" (or high-pressure band) which moved across our Islands from south-west to north-east during Wednesday. This gave rise to quiet weather, much haze, and very cold nights—the night frosts being very keen inland—especially over Ireland and Scotland.

In its rear, however, came gales of wind, mainly from between South-East and South-West, and temperature rose quickly and very generally. The rain was heavy in the north and west of the Kingdom, but especially in the south of Ireland, where the total fall for the week amounted to about 3 ins., and was more than three times as great as the mean for the time of year.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 242.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	22·5	+ 2·8	31	+ 4	EASTBOURNE	25·2	- 5·5	34	- 6
OSWALDKIRK (Yorkshire)	26·9	+ 4·9	36	+ 8	VENTNOR	19·8	?	26	?
WORKSOP	21·5	- 1·0	29	0	SOUTHPORT	15·2	?	21	?
THURCASTON (Leicestershire)	20·5	- 1·2	28	0	COLWYN BAY	10·5*	?	14*	?
MARGATE	25·2	- 0·8	34	0	NEWQUAY				
WESTBOURNE (Sussex)	22·6*	- 6·2	30*	- 7	TORQUAY	12·4*	-15·8	17*	- 19
BRIGHTON	22·2	- 7·6	30	- 9	GUERNSEY	18·5*	-11·5	24*	- 14

* The values at Westbourne, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder, and at Colwyn Bay also the record is, temporarily, that of a Jordan's Recorder.

Wyman & Sons, Ltd., Lith., 63, Carter Lane.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

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VOL. XIV No. 42.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 23RD, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 248.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	72	33	58·3	43·2	50·6	6 above	60	+25	0	− 8	1978	+161	636	− 7
	1. SCOTLAND, EAST	66	28	59·6	42·0	50·6	6 above	60	+20	0	− 9	2203	+ 8	687	+ 15
	2. ENGLAND, N.E.	66	39	59·9	46·5	53·0	6 above	77	+32	0	− 4	2444*	+ 69	477	− 79
	3. ENGLAND, EAST	68	37	58·5	45·7	51·9	4 above	69	+16	0	− 5	2876	+135	497	−129
	4. MIDLAND COUNTIES	68	33	58·9	45·1	51·8	5 above	69	+21	0	− 8	2799	+ 76	514	−121
	5. ENGLAND, SOUTH	68	43	60·7	50·7	55·6	7 above	95	+35	0	− 4	3206	+229	297	−187
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	65	35	58·5	46·7	52·5	6 above	74	+29	0	− 6	2377	+ 72	451	− 22
	7. ENGLAND, N.W.	66	38	58·6	47·1	52·7	5 above	75	+26	0	− 3	2657	+132	367	− 98
	8. ENGLAND, S.W.	67	35	58·8	48·4	53·5	5 above	81	+23	0	− 2	3008*	+225	223	−142
	9. IRELAND, NORTH	65	35	58·5	45·9	52·0	5 above	70	+23	0	− 4	2436	+ 11	404	+ 2
	10. IRELAND, SOUTH	65	35	59·0	46·8	52·7	4 above	75	+21	0	− 4	2884	+142	242	− 65
	—CHANNEL ISLANDS	69	51	60·3	54·1	57·1	5 above	106	+28	0	0	3490	+339	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 248.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	3	7	6 less	187	− 5	34·8	− 2·9	34	+17	50	+27	1149	+167	30	+ 5
	1. SCOTLAND, EAST	2	3	4 less	167	+10	24·0	− 1·2	31	+12	45	+18	1266	+ 98	33	+ 3
	2. ENGLAND, N.E.	2	less than ½	6 less	149	+ 2	20·0	− 0·7	31	+11	44	+17	1352	+179	35	+ 5
	3. ENGLAND, EAST	2	4	3 less	144	+ 1	19·5	− 1·1	29	+ 5	41	+ 9	1479	+ 89	39	+ 3
	4. MIDLAND COUNTIES	2	4	3 less	143	+ 3	22·6	+ 0·1	27	+ 6	38	+ 9	1408	+154	37	+ 4
	5. ENGLAND, SOUTH	1	1	7 less	136	+ 1	21·8	− 0·9	31	+ 6	43	+ 9	1534	+ 72	40	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	2	3	9 less	179	+15	35·4	− 2·0	27	+ 5	39	+ 8	1305	+ 45	33	+ 1
	7. ENGLAND, N.W.	1	1	8 less	165	+13	27·5	+ 0·3	32	+15	46	+22	1397	+117	35	+ 3
	8. ENGLAND, S.W.	2	4	7 less	171	+18	34·5	+ 4·5	28	+ 3	39	+ 6	1508	+ 6	40	0
	9. IRELAND, NORTH	2	3	6 less	192	+14	32·8	+ 3·5	27	+ 6	39	+11	1179	+ 40	31	+ 1
	10. IRELAND, SOUTH	1	2	7 less	179	+19	36·1	+ 5·8	45	+21	64	+32	1285	− 10	34	0
	— CHANNEL ISLANDS	2	2	8 less	180	+19	28·9	+ 3·8	26	+ 1	37	+ 3	1567	−144	42	− 4

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather at the commencement of the period was rough and unsettled, especially in the north and north-west, with heavy rain at many stations; in the south-eastern parts of the Kingdom the falls of rain were slight. By Tuesday, however, the conditions had improved considerably, and during the remainder of the week fine bright weather was experienced generally, although a good deal of haze or fog prevailed on some of the nights and mornings.

Temperature was much above the mean for the time of year, the excess ranging from 4° in England E. and Ireland S. to as much as 7° in England S. The highest of the maxima were recorded on the 17th, when they ranged from 72° in Scotland N., 69° in the Channel Islands, and 65° over southern, central, and eastern England, to 65° over Ireland and in Scotland W. The lowest of the minima were registered during the latter half of the period, and ranged from 28° in Scotland E. (at Braemar), and from 33° over Scotland N. and the Midland counties, to 43° in England S., and 51° in the Channel Islands.

Rainfall was less than the mean, the deficit being very considerable in nearly all districts.

Bright Sunshine was abundant and exceeded the mean in all parts of the Kingdom. The percentage of the possible duration ranged from 64 in Ireland S., and from 50 in Scotland N., to 38 in the Midland counties, and 37 in the Channel Islands.

Barometer and Wind.—At the commencement of the week the centre of a rather deep depression was moving north-eastwards outside our north-western coasts, the system at the same time spreading considerably over us. Strong South-Westerly and Southerly winds and gales were consequently prevalent in the west and north, and moderate or fresh winds from the same quarters elsewhere. As this disturbance disappeared, however, an anticyclone spread over us from the Continent, and the Southerly and South-Westerly winds gradually gave place to breezes from the Eastward and North-Eastward in the south, and from the South-Eastward in the north.

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* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 247 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	56	45	54·0	47·0	50·4	+ 5·4	59	0	4	0·40	− 0·60	*	*	*	*
	Stornoway	62	37	57·1	44·6	50·7	+ 5·9	61	0	4	0·70	− 0·46	31·4	+12·1	46	+19
	Wick	62	33	58·4	41·7	49·8	+ 5·0	56	1	2	0·07	− 0·65	*	*	*	*
	Lairg ℌ	72	34	61·9	40·3	50·9	+ 6·4	69	5	4	0·11	− 0·77	*	*	*	*
	Glencarron ℌ	63	39	59·2	43·3	51·0	+ 6·7	63	0	2	0·91	− 1·15	*	*	*	*
	Fort Augustus ℌ	62	33	58·3	41·2	49·5	+ 3·8	56	2	2	1·00	+ 0·07	38·2	+25·2	56	+38
	Fort William ℌ	62	38	59·1	44·5	51·6	+ 5·3	67	0	2	1·47	− 0·26	33·4	+15·6	49	+25
1. SCOTLAND, E.	Nairn	66	32	59·4	39·4	49·1	+ 4·2	61	7	2	0·06	− 0·50	*	*	*	*
	Aberdeen	65	38	58·6	43·9	51·0	+ 5·3	63	0	2	0·16	− 0·52	30·2	+ 8·2	44	+13
	Braemar ℌ	64	28	58·5	38·8	48·4	+ 6·4	58	9	2	0·92	0·00	37·7†	+21·5†	55†	+32†
	Ochtertyre ℌ	66	37	60·1	43·1	51·4	+ 6·3	66	0	2	0·55	− 0·41	*	*	*	*
	Leith	66	36	61·0	44·6	52·6	+ 5·7	74	0	1	0·01	− 0·42	*	*	*	*
	Marchmont ℌ	65	37	60·0	42·4	50·9	+ 6·3	62	0	3	0·30	− 0·46	29·3	+ 9·7	42	+15
2. ENGLAND, N.E.	Alnwick Castle	65	39	61·0	43·6	52·0	+ 6·2	70	0	3	0·07	− 0·61	*	*	*	*
	Durham	65	41	60·6	44·2	52·2	+ 6·6	71	0	0	—	− 0·68	30·5	+10·5	44	+17
	Shields	65	42	60·1	47·3	53·5	+ 6·7	81	0	1	0·05	− 0·53	*	*	*	*
	Scarborough ℳ	63	45	59·1	48·0	53·4	+ 6·0	80	0	2	0·05	− 0·68	30·3	?	43	?
	York	66	39	60·7	45·3	52·8	+ 6·5	76	0	0	—	− 0·62	29·0	+ 8·6	41	+14
	Spurn Head	62	48	57·9	50·6	54·1	+ 5·7	85	0	3	0·04	− 0·48	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	67	38	59·3	43·5	51·2	+ 4·2	64	0	3	0·63	+ 0·01	34·2	+12·2	48	+18
	Yarmouth	62	42	56·4	48·7	52·4	+ 4·0	73	0	2	0·37	− 0·33	*	*	*	*
	Geldeston	67	39	58·5	45·5	51·8	+ 4·0	69	0	3	0·26	− 0·39	25·4	+ 0·1	36	+ 3
	Cambridge	68	37	59·7	44·9	52·1	+ 4·5	71	0	2	0·36	− 0·19	28·0	+ 3·9	39	+ 7
	Rothamsted	67	38	58·6	45.9	52·1	+ 5·5	71	0	2	0·29	− 0·41	27·4	+ 2·5	39	+ 6
4. MIDLAND COUNTIES	Harrogate ℳ															
	Bawtry (Hesley Hall)	67	36	58·3	43·9	50·9	+ 4·6	62	0	2	0·05	− 0·56	*	*	*	*
	Loughborough	67	35	60·9	44·7	52·6	+ 5·8	74	0	2	0·15	− 0·48	*	*	*	*
	Stamford (Duddington)	67	33	58·9	43·7	51·1	+ 4·3	64	0	3	0·46	− 0·19	*	*	*	*
	Cheadle ℳ	63	43	57·4	45·7	51·4	+ 5·7	66	0	2	0·10	− 0·71	*	*	*	*
	Shirley (near Solihull)	66	37	57·8	45·3	51·4	+ 5·4	66	0	2	0·57	?	*	*	*	*
	Churchstoke ℳ								0							
	Hereford ℳ	68	36	60·7	44·6	52·4	+ 5·4	73	0	2	0·52	− 0·08	*	*	*	*
	Cirencester	65	36	58·1	45·4	51·6	+ 5·5	67	0	2	0·67	− 0·07	27·6	+ 4·8	39	+ 8
	Oxford	66	39	59·3	47·1	53·0	+ 5·4	77	0	3	0·40	− 0·19	24·9	+ 1·7	35	+ 4
5. ENGLAND, S.	London	68	44	62·0	50·0	55·8	+ 7·3	97	0	1	0·09	− 0·55	17·1†	− 0·8†	24†	0†
	North Foreland	64	46	59·7	51·7	55·6	+ 7·0	95	0	2	0·04	?	*	*	*	*
	Dungeness	65	43	60·1	51·9	55·9	+ 5·7	97	0	1	0·01	− 0·77	*	*	*	*
	Hastings (St. Leonards)	65	46	60·6	50·4	55·4	+ 5·7	94	0	0	—	− 0·90	34·3	+ 6·7	48	+11
	Southampton	68	44	62·8	49·7	56·1	+ 6·8	99	0	2	0·12	− 0·68	30·0	+ 4·2	42	+ 7
	Hurst Castle	66	46	61·1	52·1	56·5	+ 6·4	102	0	2	0·12	− 0·69	*	*	*	*
	Shaftesbury ℳ	62	43	58·8	48·8	53·7	+ 7·4	82	0	2	0·35	− 0·55	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)												*	*	*	*
	Glasgow	61	39	56·7	46·6	51·5	+ 5·7	67	0	3	0·18	− 0·69	21·0	+ 5·3	30	+ 8
	Ardrossan	63	42	58·3	48·7	53·4	+ 5·7	80	0	1	0·04	− 0·84	*	*	*	*
	Glenlee ℌ	64	35	59·8	42·8	51·1	+ 5·3	64	0	2	0·60	− 0·74	*	*	*	*
	Gilcrux (Cumberland)	65	40	59·4	47·1	53·1	+ 7·1	78	0	2	0·41	?	32·5	?	46	?
	Douglas (Isle of Man)	62	42	58·4	48·4	53·3	+ 5·9	79	0	1	0·24	− 0·80	28·4	+ 4·4	41	+ 8
7. ENGLAND, N.W.	Stonyhurst	62	41	57·1	46·4	51·6	+ 5·6	67	0	1	0·12	− 1·06	30·0	+ 9·9	43	+16
	Blackpool ℳ	62	38	59·2	45·4	52·1	+ 4·2	71	0	1	0·12	− 0·81	29·3	+ 9·3	42	+15
	Manchester (Prestwich)	64	40	58·3	45·7	51·8	+ 5·2	69	0	1	0·10	− 0·80	22·6	?	32	?
	Liverpool Obsy. (Bidston)	62	44	58·3	48·1	53·1	+ 5·0	78	0	1	0·06	− 0·72	*	*	*	*
	Llandudno ℳ	66	44	60·0	48·6	54·1	+ 4·6	85	0	1	0·02	− 0·88	43·5	+25·3	61	+35
	Holyhead	61	45	58·4	48·4	53·3	+ 3·6	79	0	1	0·23	− 0·78	*	*	*	*
8. ENGLAND, S.W.	Llandovery	67	35	61·9	42·9	52·1	+ 5·4	71	0	3	0·34	− 0·94	*	*	*	*
	Pembroke	60	46	57·3	48·9	53·0	+ 2·5	77	0	1	0·17	− 0·78	37·6	+13·9	53	+20
	Clifton	65	43	57·5	49·0	53·1	+ 5·1	78	0	2	0·43	− 0·40	*	*	*	*
	Arlington (N. Devon)	63	40	58·4	45·6	51·8	+ 3·9	69	0	2	0·56	− 0·91	*	*	*	*
	Cullompton ℳ	64	41	59·8	46·9	53·2	+ 6·5	78	0	3	0·67	− 0·23	24·6	+ 3·0	34	+ 5
	Falmouth	61	49	57·6	51·7	54·6	+ 4·0	88	0	3	0·31	− 0·94	16·5	−10·7	23	−13
	Plymouth	64	44	59·1	50·3	54·6	+ 4·5	88	0	2	0·38	− 0·48	22·4	− 2·2	31	− 2
	Prawle Point	65	49	59·1	52·0	55·5	+ 5·6	95	0	2	0·27	− 0·58	*	*	*	*
9. IRELAND, N.	Malin Head	62	46	57·7	49·4	53·4	+ 5·2	80	0	2	0·23	?	*	*	*	*
	Londonderry	64	44	60·1	46·2	52·9	+ 6·1	76	0	2	0·77	− 0·22	*	*	*	*
	Edenfel (Omagh)	61	42	56·7	45·7	51.0	+ 6·1	63	0	2	0·12	− 0·73	*	*	*	*
	Belmullet	65	45	59·7	48·9	54.1	+ 4·4	85	0	2	0·52	− 0·68	*	*	*	*
	Markree Castle	62	40	58·4	45·0	51·5	+ 6·2	67	0	2	0·23	− 0·80	27·0	+ 6·3	39	+11
	Armagh	62	35	58·2	41·4	49·6	+ 3·7	56	2	2	0·16	− 0·54	27·6	+ 6·6	39	+11
	Donaghadee	61	45	58·9	48·3	53·4	+ 5·7	80	0	2	0·05	− 0·75	*	*	*	*
	Edgeworthstown	60	36	58·0	42.4	50·0	+ 4·1	56	0	1	0·12	− 0·59	*	*	*	*
10. IRELAND, S.	Dublin	63	38	58·4	46·4	52·2	+ 3·8	71	0	1	0·16	− 0·56	48·4	+23·4	68	+33
	Parsonstown	62	41	58·3	44·7	51·3	+ 4·5	65	0	1	0·10	− 0·58	43·7	+21·6	62	+32
	Kilkenny	61	35	58·6	43·6	50·9	+ 3·5	62	0	1	0·48	− 0·28	*	*	*	*
	Roche's Point	61	45	58·7	49·7	54·1	+ 4·0	85	0	1	0·11	− 0·87	*	*	*	*
	Valencia	65	45	60·4	49·6	54·8	+ 4·2	90	0	2	0·32	− 0·99	43·6	+19·8	61	+29
	Killarney	62	42	60·2	47·9	53·9	+ 5·0	83	0	1	0·10	?	*	*	*	*
	Foynes	61	40	58·4	46·0	52·0	+ 4·2	70	0	1	0·18	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	62	52	59·3	53·3	56·2	+ 3·8	99	0	3	0·31	− 0·52	20·8	?	29	?
	Jersey	69	51	61·3	54·9	58·0	+ 5·6	112	0	1	0·02	− 1·06	31·2	+ 1·9	43	+ 4

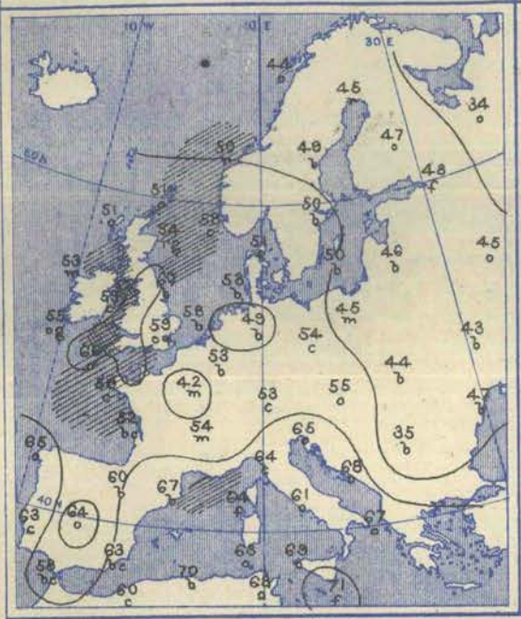
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℌ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

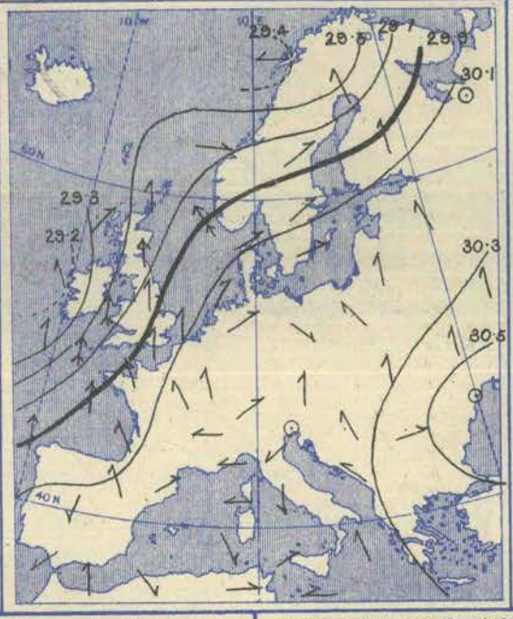
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 17th October.

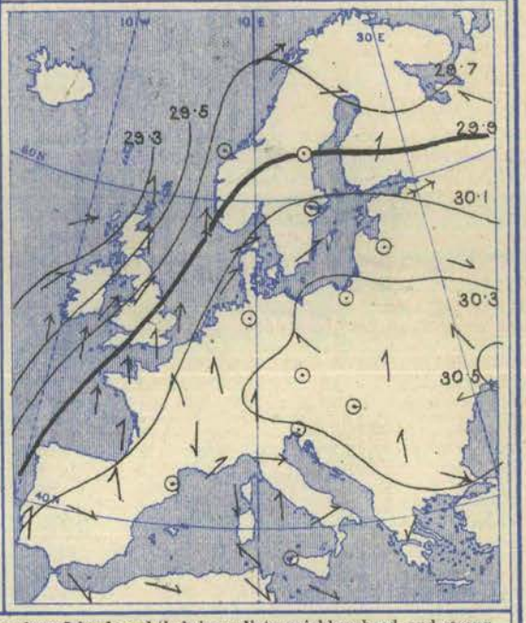
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull in all the more western and northern parts of our Islands, with rain in Ireland and Scotland. Fine in the south-east of England, and also over the western and northern parts of the Continent as a whole, but dull in the west of Norway, with rain at Christiansund. Foggy or misty over Germany and central France; dull in Austria and Italy. Rain falling later in all but the southern parts of our Islands—rather heavily on our extreme north and north-west coasts, as well as in the west of Norway; heavy rain falling also in northern Italy. Thunderstorm occurring at Valencia (Ireland).

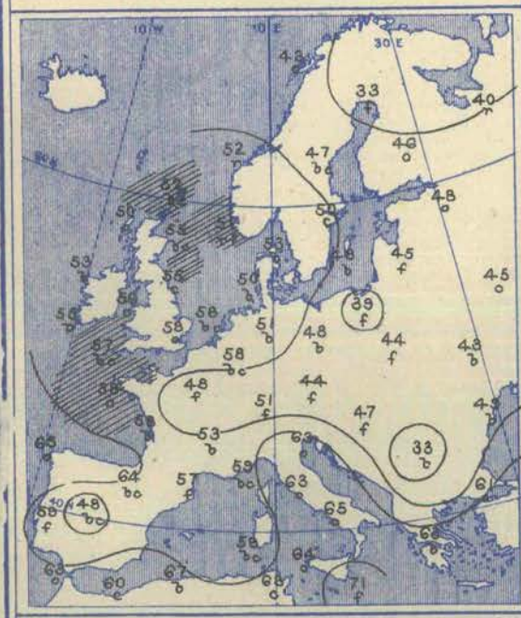
Temperature risen at all but the French and Italian stations. Morning readings highest, 71° at Palma and Malta, 70° at Algiers, and 69° at Palermo; above 60° at the Mediterranean, Adriatic, and Spanish coast stations generally, as well as on some parts of our own south-west and north-east coasts. Lowest, (1) 34° at Archangel, and 44° at Uleaborg; (2) 35° at Hermanstadt, 42° at Nicolaieff, 43° at Kiev and Kharkov. Rising during day to between 60° and 65° in many parts of our Islands, and reaching 68° in London and at Cambridge; exceeding 70° over southern Europe generally, and touching 84° at Palermo.

Wind Southerly over the whole of our Islands and their immediate neighbourhood, and strong to a gale in force on our western coasts, as well as in the south-west of Norway. Moderate from the South-Westward in Sweden, and from the Southward in Finland. Light and variable over Germany, Austria, Italy, and the southern parts of France and Russia; Easterly (North-Easterly to South-Easterly) over the Spanish Peninsula. Gale on our west coasts subsequently spreading to Scotland, and wind increasing considerably from the Southward even over England.

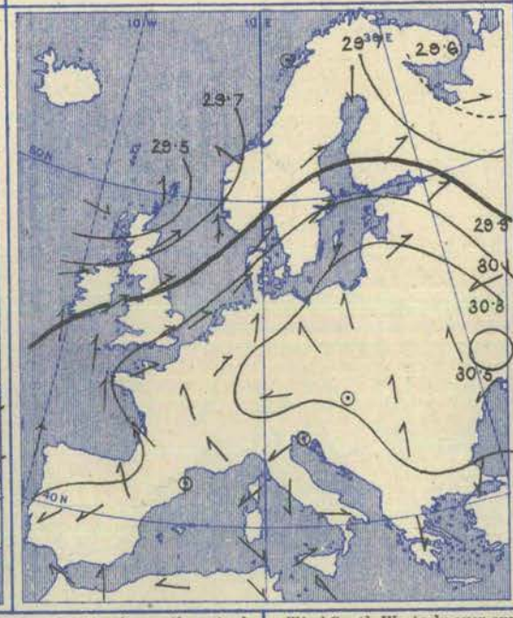
Barometer highest, 30·5 ins. and upwards over the south of Russia; 30·2 ins. and upwards in an anticyclone embracing nearly the whole of eastern, central, and southern Europe. Lowest, 29·2 ins. and less in a deep depression lying off the west of Ireland; 29·4 ins. and less in another disturbance off the north-west of Norway. Former depression subsequently travelling northwards; latter disturbance moving away to the north-eastward.

Monday, 18th October.

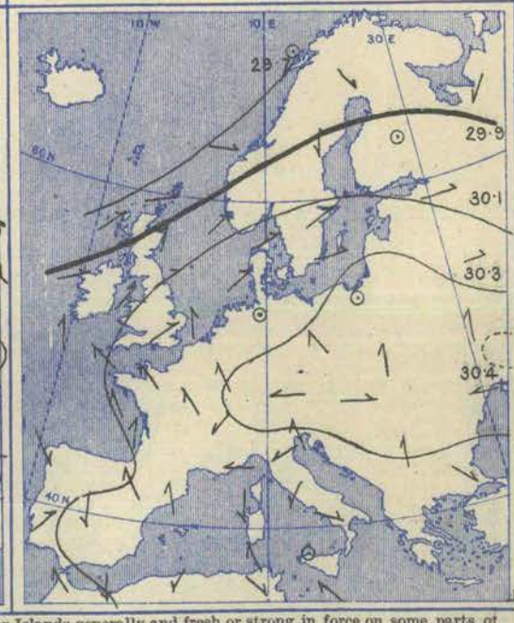
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over western Europe as a whole, but dull in the south-east of England, and rainy in the west of Norway. Foggy in many parts of Denmark, Germany, and central France; fine in Austria, Greece, and the south of Russia; cloudy or dull in Italy. A little rain falling later in the extreme west and north of our Islands, as well as at several of the Scandinavian stations; rain setting in at night over the south and east of England. Aurora seen at Stornoway.

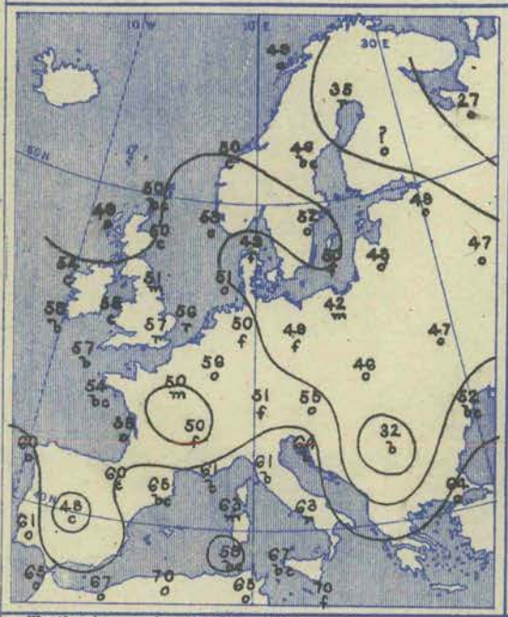
Temperature fallen in the western and northern countries, but risen elsewhere. Morning readings highest, 71° at Malta, 68° at La Calle, and 67° at Algiers; above 60° at most of the Mediterranean, Adriatic, and Spanish coast stations, and just touching it at Jersey and Dungeness. Lowest, 33° at Haparanda, 39° at Neufahrwasser, 40° at Archangel and Kharkov, and 41° at Uleaborg. Rising during day to 60° and upwards in all but the extreme western and northern parts of our Islands, and reaching 66° in London and at Cambridge; exceeding 70° over southern Europe generally, and reaching 79° at Palermo. Succeeding night very mild in the south of England.

Wind South-Westerly over our Islands generally and fresh or strong in force on some parts of our western and northern coasts; Southerly over the Netherlands, Denmark, the Baltic, and the southern parts of Scandinavia, with a gale at Skudesnaes; calm or Easterly in the west of Norway. Easterly (South-East to North-East) over the Spanish Peninsula; South-Easterly over the greater part of France; calm over Austria and the south of Russia; variable in Italy. Subsequently backing to the South-Eastward in the extreme south of England. No important change occurring elsewhere.

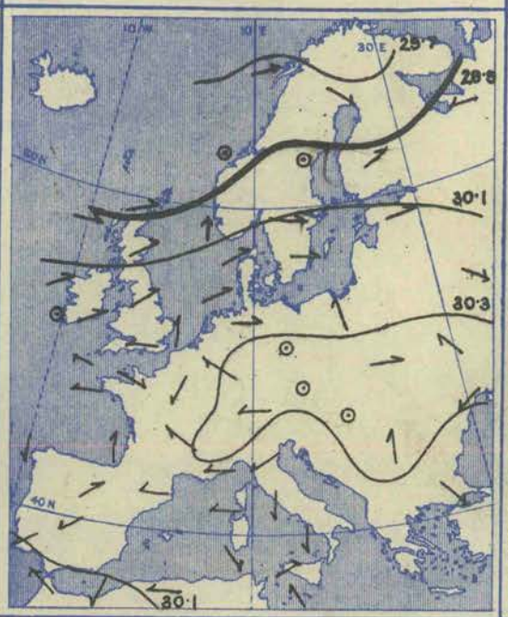
Barometer highest, 30·4 ins. to 30·5 ins. over eastern Austria and the south of Russia; 30·2 ins. and upwards in an anticyclone extending from the southern parts of Russia across the whole of central and the greater part of southern Europe. Lowest, 29·5 ins. and less in a depression lying off the north of Scotland, 29·6 ins. and less in another disturbance over the White Sea. Former depression subsequently travelling away to the northward, and barometer rising briskly over all the more northern parts of our Islands; disturbance over White Sea disappearing from our area.

Tuesday, 19th October.

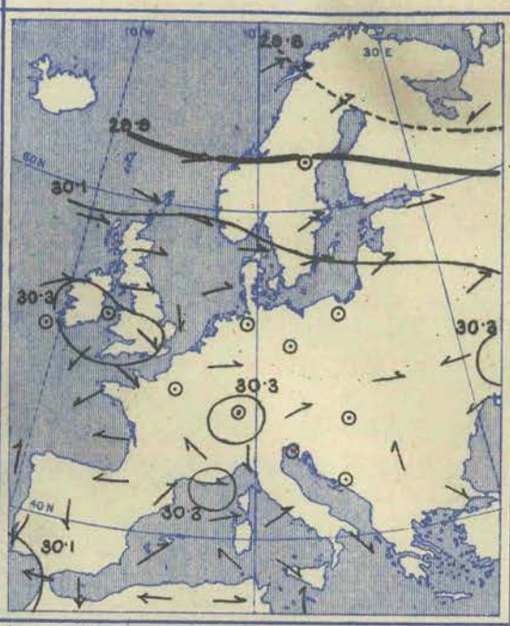
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over Europe as a whole, with fog or mist in many places; rain falling over eastern and central England, and also over Lapland and at Naples. Fine at several stations in Ireland and the northern parts of Great Britain, as well as in Austria, the south of Russia, northern Italy, and the extreme south of France. Weather improving later in England, but rain occurring over Holland and Germany. A little rain falling also in the extreme north of our Islands, and larger quantities in the west of Norway.

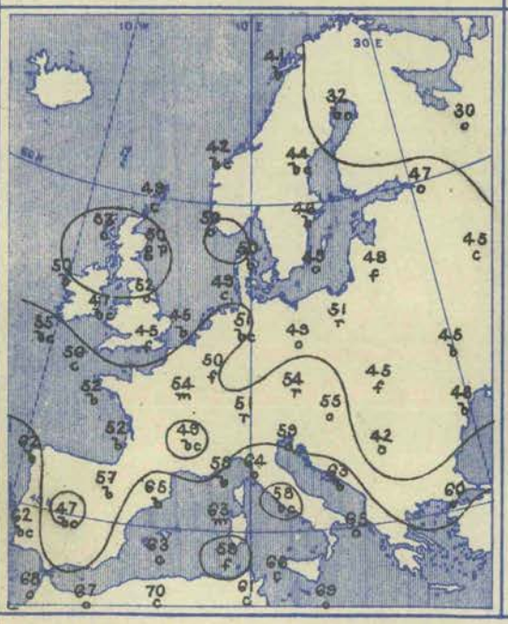
Temperature fallen in most parts of north-western Europe, but changed irregularly elsewhere. Morning readings highest, 78° at Sfax, 70° at Malta and Algiers, and 67° at Palermo and Oran; above 60° at the Mediterranean, Adriatic, and Spanish coast stations generally, and very little below it in the south of England. Lowest, (1) 27° at Archangel, 35° at Haparanda, 39° at Uleaborg; (2) 32° at Hermanstadt, and 38° at Kharkov. Rising during day to between 60° and 65° in most parts of England and Ireland, to 66° at Hurst Castle, and to 69° at Jersey; exceeding 70° over the west of France and southern Europe generally, and reaching 79° at Bilbao.

Wind South-Westerly or Westerly over all the more northern parts of the United Kingdom, as well as in Scandinavia, Denmark, and northern Russia; light or moderate in force generally, but strong at Bodö and Skudesnaes. Light from the Eastward over the south of England and the greater part of France and Spain, but Southerly or South-Westerly in the south-west of France. Calm or variable over Germany, Austria, Italy, and the south of Russia. Subsequently shifting to the North or North-West in the south of England; no important change occurring elsewhere

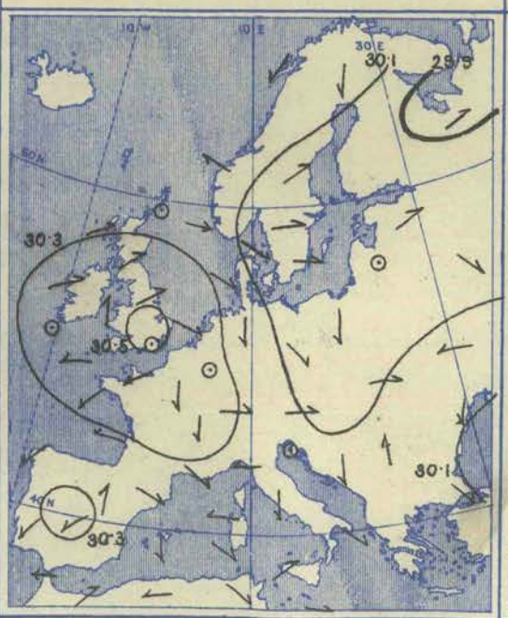
Barometer highest, 30·41 ins. at Kharkov; 30·2 ins. and upwards in an anticyclone embracing nearly the whole of central, southern, and eastern Europe, and extending westward over the southern parts of England and Ireland. Lowest, 29·7 ins. and less in the north of Scandinavia. Anticyclone spreading later over all but the extreme northern parts of our Islands, but barometer falling slightly in Sweden and Denmark.

Wednesday, 20th October

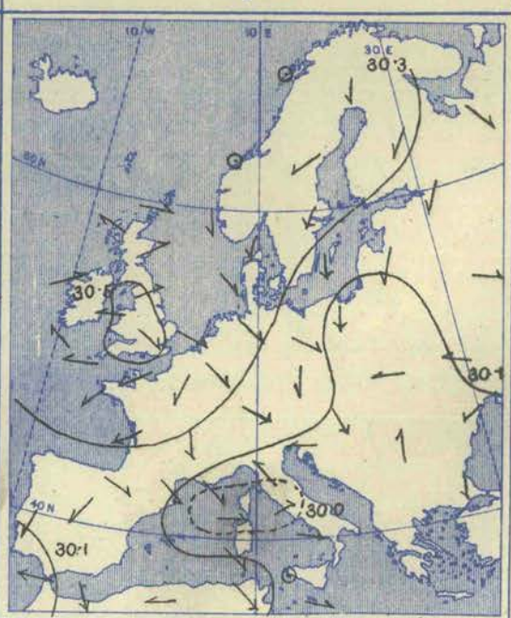
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over western and southern Europe generally, but foggy at many of the English stations, as well as over Belgium and central France. Dull in the north and east of Scotland, with showers at Aberdeen; rainy at many of the German and Austrian stations; cloudy in Russia, with fog at Helsingfors and Riga; fog clearing later over England; slight rain falling in the Shetlands, Hebrides, and west of Norway, and somewhat larger amounts over central Russia and the northern parts of Germany and Italy.

Temperature fallen in England, and also in Denmark, Scandinavia, and Russia, changed irregularly elsewhere. Morning readings highest, 70° at Algiers, 69° at Malta, and 68° at San Fernando; above 60° at the Mediterranean, Adriatic, and Spanish coast stations generally, and very little below it in the Channel Islands. Lowest, (1) 30° at Archangel, 32° at Haparanda, and 36° at Uleaborg; (2) 37° at Loughborough, 39° at Cambridge, and 42° at York. Rising during day to between 60° and 65° in most parts of our Islands, and to 70° and upwards over southern Europe generally; reaching 77° at Perpignan and Lisbon.

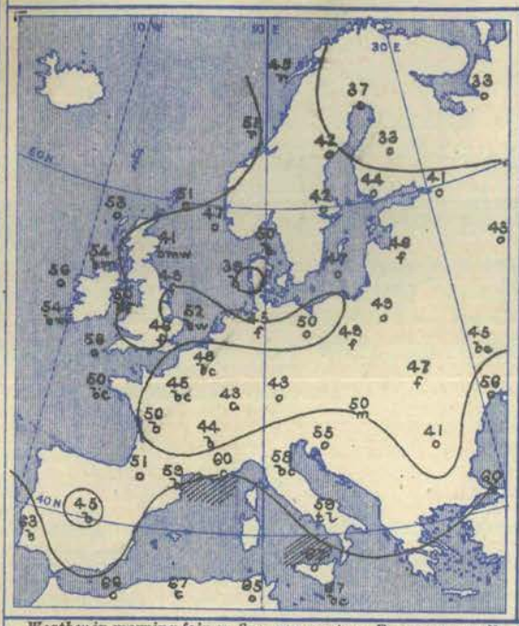
Wind light from the North-Eastward or Eastward over the Channel, Bay of Biscay, and the Spanish Peninsula, but from the South-Westward or Westward over all the more northern parts of our Islands. Moderate from the Westward or North-Westward over Scandinavia, Denmark, Germany, and Austria. Variable in Russia, and also in Italy, and the south of France. No important change occurring during day.

Barometer highest, 30·5 ins. and upwards over central England; 30·2 ins. and upwards in an anticyclone covering the whole of western Europe. Lowest, 29·9 ins. and less in a depression over the extreme north of Russia; 30·1 ins. and less in a shallow area over the Black Sea. Anticyclone subsequently spreading north-eastwards over northern Europe; depression over northern Russia disappearing from our area.

Thursday, 21st October.

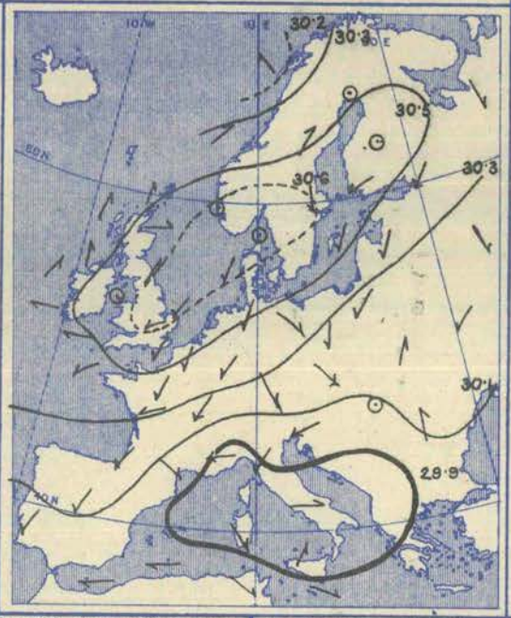
Temperature and Weather.

8 a.m.

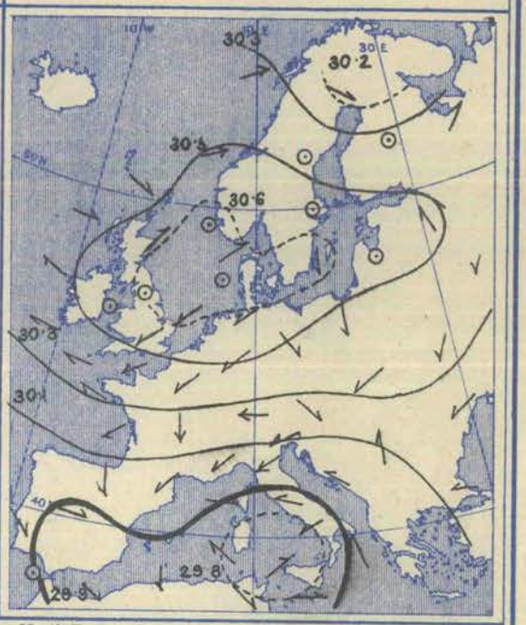


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western Europe generally, but with fog or mist in many parts of Great Britain. Dull in most of the northern, central, and eastern countries, with rain in the west of Norway, as well as at Prague, Vienna and Kharkov; thunderstorm reported at Naples; fog clearing later over England; rain falling in the north of Scandinavia, and heavy amounts in various parts of southern Europe; as much as 2·1 ins. at Marseilles, and 1·3 ins. at Lesina and Cagliari. Lightning seen at Nice in evening.

Temperature fallen in Scotland and also over the central and southern parts of the Continent, changed irregularly elsewhere. Morning readings highest, 72° at Sfax, 68° at Barcelona, and 67° at Palermo, Malta, and Algiers; above 60° at most of the Mediterranean and Spanish coast stations. Lowest (1), 26° at Uleaborg, 33° at Archangel and Kuopio, and 37° at Haparanda; (2), 40° at Nairn and Oxford; (3), 43° at Belfort and Munich. Daily maxima below 60° at most of our own southern stations, but thermometer exceeding 60° in the north and reaching 66° at Nairn and Leith; exceeding 70° over Spain and southern Italy, and reaching 79° at San Fernando. Frost occurring in the north of Scotland at night.

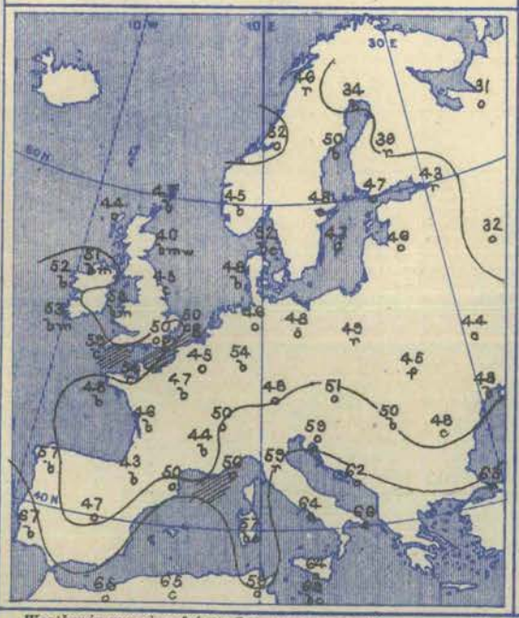
Wind light to moderate from the North-Eastward over the Baltic, Denmark, north Germany, the Netherlands, the south-east of England, France, and the Spanish Peninsula; Easterly on our own south-west coasts. Light from the Southward or South-Westward over the northern parts of our Islands; moderate from between South-West and South-East over the northern parts of Scandinavia. North-westerly over eastern Germany; Westerly or South-Westerly in the south of Italy. No important change occurring over western Europe during day.

Barometer highest 30·6 ins. and upwards in an elongated area extending from the central and north-eastern parts of England to the north of Denmark and the south of Scandinavia, 30·3 ins. and upwards in an anticyclone covering the whole of north-western, northern, and the greater part of central Europe. Lowest, 29·9 ins. and less in a large and somewhat complex depression lying over Corsica, Sardinia, the neighbouring parts of the Mediterranean, and all the more southern parts of Italy and the Adriatic. No important change occurring later.

Friday, 22nd October.

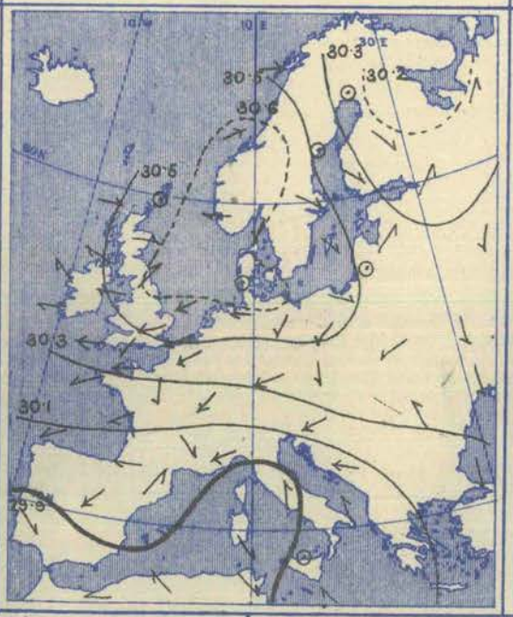
Temperature and Weather.

8 a.m.

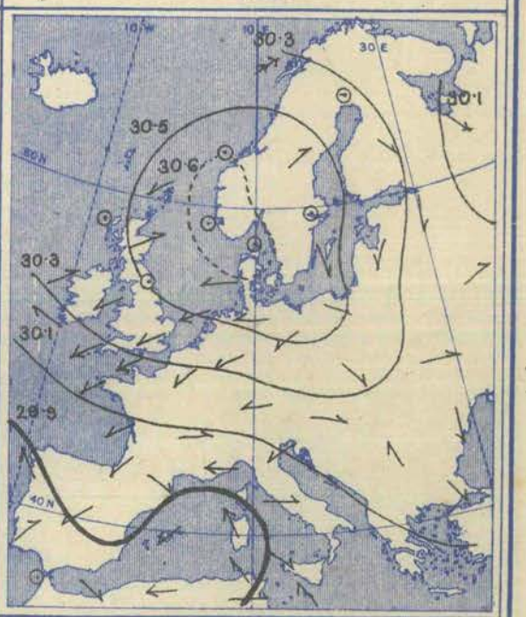


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over western Europe generally, but dull in the south and south-east of England, and foggy at some of the Scotch stations. Dull in most of the eastern, central, and southern countries, with fog in places, and rain in several parts of Germany, northern Italy, and the south of France, as well as at Bodö, Kuopio, and St. Petersburg. No important change occurring over western Europe during day, but rain falling over northern Italy and the southern parts of France and Spain, and heavily at Turin.

Temperature changed very irregularly. Morning readings highest, 69° at Malta, 67° at Lisbon, 66° at Brindisi, and 65° at Algiers; above 60° at several of the Mediterranean, Adriatic, and Spanish coast stations. Lowest (1), 31° at Archangel, 32° at Moscow, 34° at Haparanda, and 39° at Kuopio; (2), 36° at Wick and Nairn, and 40° at Aberdeen and Leith. Daily maxima below 60° in most parts of the United Kingdom, and below 55° in the east and south-east of England; thermometer reaching 63° at Ardrossan, and also rising slightly above 60° in the south of France; exceeding 70° in the southern parts of Spain and Italy. Frost occurring over central Scotland at night.

Wind North-Easterly or Easterly over the more southern parts of our Islands and also over the Netherlands, France, Germany, Austria, and Spain; strong in force on the south and south-east coasts of England, and blowing a moderate gale at Munich, Trieste, Nice, and Leghorn. South-Easterly in Ireland, and light from between South and West in Scotland. Westerly in the west of Norway; calm in the north of Sweden, but North-Westerly or Northerly in the south of that country, and also over the greater part of Russia. Southerly or South-Easterly over the central and southern parts of Italy. No important change occurring later.

Barometer highest, 30·6 ins. and upwards over the north-east of England, the North Sea, and the southern parts of Norway; 30·3 ins. and upwards in an anticyclone embracing the greater part of north-western, northern, and central Europe. Lowest, 29·8 ins. and less in a depression lying over Corsica and the neighbouring parts of the Mediterranean. Anticyclone moving slowly north-eastwards during day and barometer falling in all parts of Western Europe.

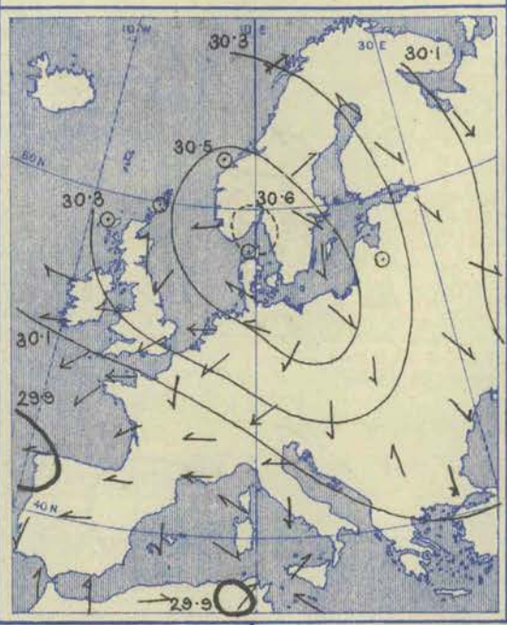
Saturday, 23rd October.

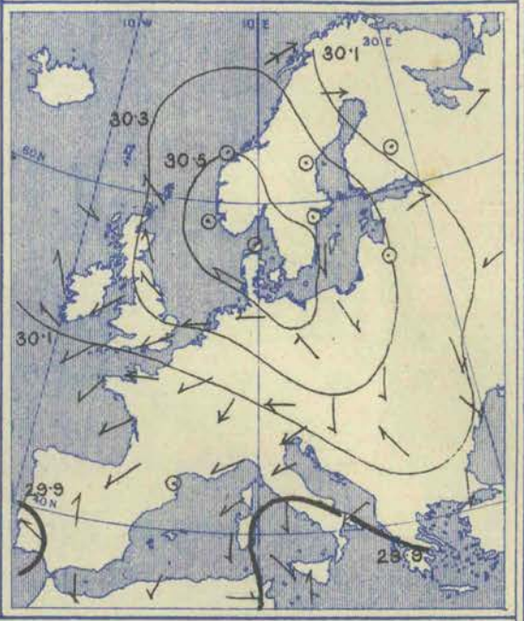
Temperature and Weather. — 8 a.m.

Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with mist or fog in several places; rain falling at Turin, Toulon, and Cagliari as well as at Bodö, St. Petersburg, and Kiev. Fine in Sweden and Finland as well as in Austria and the northern and central parts of Spain. Sky clearing later in many parts of France and the south of England, but heavy rain falling at Lisbon, Turin, and Brindisi—as much as 2·2 ins. at the last mentioned place.

Temperature changed irregularly in our Islands, but fallen at most of the Continental stations. Morning readings highest, 72° at Malta, 70° at Sfax, 66° at Palermo, and 65° at San Fernando; above 60° at several of the Mediterranean stations. Lowest, (1) 34° at Ulleaborg and Kuopio, and 36° at Archangel and Helsingfors; (2) 35° at Nairn, and 41° at Stornoway. Daily maxima below 55° over our Islands generally (excepting in the extreme south), but thermometer reaching 59° at Belmullet, and 62° at Stornoway; exceeding 65° in the south of France, and exceeding 70° over Spain and southern Italy. Frost occurring in the north of Scotland at night.

Barometer and Wind. — 8 a.m. and 6 p.m.





Wind Easterly or North-Easterly over England, Ireland, the Netherlands, Germany, France, Spain, and northern Italy; light or moderate in force generally, but strong on some of the more exposed parts of the English and Irish coasts. Light from the Southward in the north-east of Scotland; South-Westerly over the northern parts of Scandinavia; Northerly or North-Westerly over Russia and the Baltic; variable over Austria and southern Italy. No important change occurring over western Europe during day.

Barometer highest, 30·60 ins. at Skagen; 30·2 ins. and upwards in an anticyclone covering the whole of northern and central Europe, and extending westwards over the greater part of our own Islands. Lowest, 29·9 ins. and less in three small shallow depressions—one lying over the north-west of Spain, another off the south of France, and the third near Malta. Anticyclone drifting gradually northwards during day, and barometer falling in most parts of western Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line bein given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: →» = a heavy gale →→ = a gale; → = a fresh to strong breeze; →\ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of last week, when an anticyclone extended from the south of Russia over all the more central and southern parts of the Continent, the weather in the north-western countries was affected by a deep depression, the centre of which moved in a north-north-easterly direction along the Irish and Scotch coasts. The passage of the disturbance was accompanied by strong Southerly winds in our Islands (reaching the force of a strong gale in the west and north), and by rain in nearly all the more western and northern countries, the fall being heavy at some of the Irish and Scotch stations. Temperature was high for the time of year, especially over England.

As the depression passed away to the northward, however, the Continental anticyclone spread westward over the whole of our Islands, the central portion of the system being found on the 20th directly over England. The winds now fell light, and circulated round the region of highest pressure, while the weather improved decidedly, cold night fogs being experienced, however, in many inland places.

Towards the close of the week the anticyclone drifted slowly north-eastward, while a complex low-pressure system began to extend northwards from southern Europe and the Mediterranean, the weather in the latter regions being very unsettled, with heavy falls of rain in places. So far as our own Islands were concerned the only effect of the low-pressure area was to occasion a decided increase of wind from East and North-East on our south and east coasts, the weather remaining fair and dry in most districts. Temperature was inclined to rise in the south, but sharp frosts were experienced over Scotland.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 248.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	26·2	+ 7·3	38	+12	EASTBOURNE	34·6	+. 7·1	48	+11
OSWALDKIRK (Yorkshire)	33·6	+13·8	48	+21	VENTNOR	27·8	?	39	?
WORKSOP	26·0	+ 6·2	37	+11	SOUTHPORT	30·1	?	43	?
THURCASTON (Leicestershire)	27·7	+ 7·7	39	+12	COLWYN BAY	38·5*	?	54*	?
MARGATE	29·2	+ 5·0	41	+ 9	TENBY	38·1*	+12·9	54*	+21
WESTBOURNE (Sussex)	37·2*	+11·2	52*	+17	NEWQUAY	28·5	+ 2·3	40	+ 5
BRIGHTON	33·5	+ 5·5	47	+ 9	TORQUAY	25·4*	+ 0·1	35*	+ 2
					GUERNSEY	27·1*	+ 0·3	38*	+ 2

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder, and at Colwyn Bay also the record is, temporarily, that of a Jordan's Recorder.

WYMAN & SONS, LTD. LITH. 63, CARTER LANE.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV No. 43.] *Third Series.* WEEK ENDING SATURDAY, OCTOBER 30TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 254.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	65	29	56·6	40·9	48·5	5 above	50	+23	3	− 7	2028	+181	639	− 14
	1. SCOTLAND, EAST	64	24	54·0	38·7	46·1	3 above	43	+10	9	− 3	2246	+ 18	696	+ 12
	2. ENGLAND, N.E.	63	32	54·4	43·2	48·6	3 above	46	+ 9	0	− 6	2490	+ 78	477	− 85
	3. ENGLAND, EAST	65	32	57·8	39·8	48·5	3 above	55	+10	6	− 1	2931	+145	503	−130
	4. MIDLAND COUNTIES	66	31	55·6	40·6	47·9	3 above	47	+ 6	4	− 6	2845*	+ 81	518	−127
	5. ENGLAND, SOUTH	66	38	58·9	47·9	53·2	6 above	78	+28	0	− 5	3284	+257	297	−192
Principal Grazing, &c., Districts.	**6.** SCOTLAND, WEST	62	31	56·3	44·3	50·1	5 above	57	+19	0	− 8	2435*	+ 92	451	− 30
	7. ENGLAND, N.W.	64	36	57·3	45·8	50·9	4 above	62	+20	0	− 5	2719	+152	367	−103
	8. ENGLAND, S.W.	66	41	58·7	49·8	54·1	7 above	85	+34	0	− 3	3093	+259	223	−145
	9. IRELAND, NORTH	63	31	56·6	48·2	52·3	7 above	72	+30	0	− 5	2508	+ 41	404	− 3
	10. IRELAND, SOUTH	63	38	58·4	50·2	54·2	7 above	85	+36	0	− 5	2968*	+177	242	− 70
	—CHANNEL ISLANDS	63	49	60·1	52·7	56·3	5 above	100	+29	0	0	3599	+368	68	− 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 254.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	**0.** SCOTLAND, NORTH	2	1	10 less	189	− 8	34·9	− 4·0	32	+17	50	+28	1181	+184	30	+ 5
	1. SCOTLAND, EAST	1	1	6 less	168	+ 7	24·1	− 1·8	17	− 1	26	0	1283	+ 98	33	+ 3
	2. ENGLAND, N.E.	0	less than ½	6 less	149	− 2	20·0	− 1·3	22	0	33	+ 1	1374	+180	35	+ 5
	3. ENGLAND, EAST	1	1	6 less	145	− 2	19·6	− 1·6	34	+12	50	+20	1513	+101	39	+ 3
	4. MIDLAND COUNTIES	1	less than ½	6 less	144	0	22·5*	− 0·6	19	− 1	28	0	1428*	+154	37	+ 4
	5. ENGLAND, SOUTH	1	less than ½	8 less	137	− 2	21·8	− 1·7	36	+14	53	+21	1570	+ 86	40	+ 2
Principal Grazing, &c., Districts.	**6.** SCOTLAND, WEST	2	1	11 less	181	+14	35·6*	− 3·0	22	− 2	34	− 2	1327	+ 43	33	+ 1
	7. ENGLAND, N.W.	1	less than ½	9 less	166	+10	27·5	− 0·6	27	+11	39	+16	1424	+127	35	+ 3
	8. ENGLAND, S.W.	1	1	10 less	172	+15	34·6	+ 3·5	20	− 3	29	− 2	1528	+ 3	39	0
	9. IRELAND, NORTH	2	3	6 less	194	+12	33·1	+ 2·9	12	− 7	18	−10	1191	+ 33	31	+ 1
	10. IRELAND, SOUTH	3	4	5 less	182	+18	36·5	+ 5·3	16	− 6	23	− 8	1301	− 16	33	− 1
	— CHANNEL ISLANDS	3	4	5 less	183	+17	29·3	+ 3·3	28	+13	41	+20	1595	−132	42	− 4

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was fair and dry as a whole, but much fog or mist was experienced at times, especially over England. The fog which prevailed in the Metropolis and its neighbourhood on Thursday was unusually dense.

Temperature was again above the mean, the excess ranging from 7° in England S.W. and over Ireland, to 3° over the eastern and central parts of Great Britain. The highest of the maxima were registered towards the end of the period, and ranged from 66° in the Midland Counties and England S. and S.W., to 62° in Scotland W. The lowest of the minima, which were recorded on rather irregular dates, ranged from 24° in Scotland E., to 38° in England S. and Ireland S., to 41° in England S.W., and 49° in the Channel Islands.

Rainfall was again much less than the mean. Over the greater part of England there was an almost entire absence of rain, but small amounts of moisture were deposited in the gauge by the wet fogs and dews which prevailed during the latter half of the week.

Bright Sunshine varied considerably in the different parts of the Kingdom, but was, as a rule more prevalent in the east and south than in the west. The percentage of the possible duration ranged from 53 in England S., 50 in Scotland N. and England E., and 41 in the Channel Islands, to 26 in Scotland E., 23 in Ireland S., and 18 in Ireland N.

Barometer and Wind.—The distribution of pressure during this week was mainly anticyclonic, with Southerly and South-Easterly winds. By the middle of the week, however, depressions began to skirt our extreme western and north-western coasts, and these caused the wind to increase considerably in force in Ireland and the west of Scotland and even to attain the strength of a moderate to fresh gale. By the end of the period the barometer was rising generally, and the wind had again become light in all parts of the Kingdom.

607 | 90 W. & S., Ltd.
213 | 70 10 | 97 1897

* This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 253 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N	Sumburgh Head ⚓	55	45	51·6	46·6	49·0	+ 5·1	49	0	1	‡0·02	− 1·00	*	*	*	*
	Stornoway	60	33	57·6	40·4	48·8	+ 5·0	54	4	4	0·09	− 1·09	33 7	+16·0	53	+27
	Wick	60	32	55·4	42·3	48·7	+ 5·1	47	0	0	—	− 0·78	*	*	*	*
	Lairg ⚓	62	30	59·2	36·7	47·6	+ 5·5	61	15	2	0·03	− 0·85	*	*	*	*
	Glencarron ⚓	65	33	57·5	39·8	48·4	+ 5·3	54	6	2	0·13	− 2·00	*	*	*	*
	Fort Augustus ⚓	64	29	57·2	37·9	47·3	+ 3·0	54	11	1	‡0·07	− 0·85	33·5	+22·2	52	+35
	Fort William ⚓	61	37	57·6	42·7	49·9	+ 5·1	55	0	2	0·58	− 1·12	29·8	+13·9	46	+23
1. SCOTLAND, E.	Nairn	64	27	56.4	33·1	44·4	+ 1·0	54	25	1	0·04	− 0·46	*	*	*	*
	Aberdeen	58	40	52·9	45·3	49·0	+ 4·8	49	0	1	0·07	− 0·58	7·0	−14·0	11	−19
	Braemar ⚓	58	24	55·3	33·9	44·3	+ 3·7	50	23	2	0·16	− 0·80	30·5†	+17·2†	47†	+27†
	Ochtertyre ⚓	58	37	50·7	41·7	46·1	+ 2·3	30	1	2	0·09	− 0·83	*	*	*	*
	Leith	59	34	53·7	38·7	46·0	+ 0·6	42	9	1	0·03	− 0·37	*	*	*	*
	Marchmont ⚓	60	34	54·9	39·6	47·0	+ 3·9	45	7	1	0·02	− 0·72	15·5	− 2·9	24	− 3
2. ENGLAND, N.E.	Alnwick Castle	58	34	52·7	40·8	46·6	+ 2·0	37	3	2	‡0·03	− 0·64	*	*	*	*
	Durham	58	40	54·5	42·7	48·4	+ 4·6	45	0	0	—	− 0·68	20·0	+ 1·5	30	+ 4
	Shields	60	38	55·0	43·7	49·2	+ 3·7	50	0	0	—	− 0·58	*	*	*	*
	Scarborough ℳ	63	42	56·9	44·8	50·7	+ 4·8	61	0	0	‡0·04	− 0·69	32·1	?	48	?
	York	61	32	53·0	40·7	46·7	+ 2·0	38	4	0	‡0 03	− 0·58	10·7	− 7·3	16	−10
	Spurn Head	57	44	54·1	46·3	50·1	+ 3·2	57	0	0	‡0·05	− 0·50	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	64	36	59·6	39·7	49·4	+ 4·1	61	6	0	‡0·04	− 0·56	37·7	+17·7	55	+26
	Yarmouth	56	43	54·4	46·6	50·4	+ 3·5	59	0	0	‡0·01	− 0·69	*	*	*	*
	Geldeston	64	32	59·4	37·0	47·9	+ 1·7	62	14	1	‡0·06	− 0·59	43·0	+20·3	63	+33
	Cambridge	65	34	58·3	37·6	47·6	+ 1·8	58	12	1	0·01	− 0·52	30·1	+ 8·1	44	+14
	Rothamsted	65	34	57·4	37.9	47·4	+ 2·6	55	11	3	‡0·11	− 0·59	26·7	+ 3·5	39	+ 7
4. MIDLAND COUNTIES	Harrogate ℳ															
	Bawtry (Hesley Hall)	62	32	52·1	37·4	44·5	− 0·1	37	13	1	‡0·05	− 0·53	*	*	*	*
	Loughborough	66	31	56·1	48·4	47·0	+ 1·5	50	10	1	‡0·02	− 0·60	*	*	*	*
	Stamford (Duddington)	63	33	55·1	37·0	45·8	+ 0·9	48	14	0	‡0·04	− 0·56	*	*	*	*
	Cheadle ℳ	59	36	53·3	42·0	47·5	+ 3·5	39	0	1	0·01	− 0·81	*	*	*	*
	Shirley (near Solihull)	63	35	57·4	41·3	49·1	+ 5·1	53	2	1	‡0·08	?	*	*	*	*
	Churchstoke ℳ	61	41	56·5	44·0	50·1	+ 5·2	57	0	0	—	− 0·83	?22·3	?+ 3·3	?34	?+ 7
	Hereford ℳ	60	35	55·9	41·6	48·5	+ 2·8	47	1	0	‡0·01	− 0·56	*	*	*	*
	Cirencester	61	41	56·3	43·4	49·7	+ 5·0	54	0	1	‡0·03	− 0·70	17·6	− 4·2	26	− 4
	Oxford	63	34	58·1	40·4	49·0	+ 2·9	56	4	1	0·10	− 0·46	22·5	+ 0·9	33	+ 3
5. ENGLAND, S.	London	66	38	58·3	41·7	49·8	+ 2·8	56	1	2	0·17	− 0·47	16·9†	+ 0·1†	25†	+ 3†
	North Foreland	61	49	56·9	49·7	53·2	+ 6·6	78	0	2	‡0·06	?	*	*	*	*
	Dungeness	62	48	58·1	51·1	54·5	+ 5·8	88	0	0	—	− 0·78	*	*	*	*
	Hastings (St. Leonards)	63	44	58·4	49·5	53·8	+ 5·8	83	0	0	—	− 0·90	43·6	+18·6	63	+28
	Southampton	64	41	61·5	47·5	54·3	+ 6·5	86	0	1	0·04	− 0·76	31·4	+ 7·4	46	+13
	Hurst Castle	63	46	60·6	49 7	55·0	+ 6 1	91	0	1	0·01	− 0·79	*	*	*	*
	Shaftesbury ℳ	64	41	58·2	46·3	52·1	+ 7·3	71	0	0	‡0·01	− 0·82	*	*	*	*
6. SCOTLAND, W	Laudale (Loch Sunart)	62	41	59·4	48·4	53·7	+ 7·8	82	0	2	0·14	− 1·61	*	*	*	*
	Glasgow	55	37	51·8	42·6	47·1	+ 2·3	36	0	2	0·03	− 0·85	13·4	− 0·8	21	9
	Ardrossan	58	40	55·6	42·1	48·7	+ 2·3	47	0	2	‡0·17	− 0·73	*	*	*	*
	Glenlee ⚓	61	31	56·3	40·7	48·3	+ 4·0	50	4	2	0·03	− 1·35	*	*	*	*
	Gilcrux (Cumberland)	65	34	59·2	43·1	50 9	+ 6·5	62	0	0	‡0·02	?	35 2	?	53	?
	Douglas (Isle of Man)	58	44	55·7	48·7	52·1	+ 5·9	71	0	2	‡0·06	− 1·03	18·3	− 2·7	27	− 4
7. ENGLAND, N.W.	Stonyhurst	60	41	55·2	44·3	49·6	+ 5·0	53	0	0	—	− 1·17	22·1	+ 5·1	33	+ 8
	Blackpool ℳ	61	36	57·0	44·0	50·3	+ 3·9	58	0	0	—	− 0·90	26·6	+ 8·6	40	+15
	Manchester (Prestwich)	64	41	57·9	42·6	50·0	+ 4·7	56	0	0	—	− 0·87	22·1	?	33	?
	Liverpool Obsy. (Bidston)	58	42	54·9	43·9	49·2	+ 2·5	50	0	0	—	− 0·72	*	*	*	*
	Llandudno ℳ	64	45	60·0	48·6	54·1	+ 6·1	85	0	1	0·02	− 0·88	34·8	+17·8	51	+27
	Holyhead	63	42	58·9	46·3	52·4	+ 4 0	73	0	2	0·09	− 0·93	*	*	*	*
8. ENGLAND, S.W.	Llandovery	66	44	61·1	45·7	53·2	+ 7·8	78	0	1	0·02	− 1·26	*	*	*	*
	Pembroke	59	45	57·6	51·3	54·4	+ 5·0	87	0	2	0·12	− 0·83	21·3	− 0·2	31	0
	Clifton	61	46	57·4	48·3	52·7	+ 6·1	75	0	0	—	− 0·82	*	*	*	*
	Arlington (N. Devon)	62	46	59·0	49·0	53·9	+ 7·3	83	0	0	—	− 1·51	*	*	*	*
	Cullompton ℳ	64	41	59·9	46·1	52·8	+ 8·0	76	0	1	0·01	− 0·89	24·9	+ 4·9	36	+ 9
	Falmouth	60	50	58·2	53·8	55·9	+ 6·7	97	0	3	0·23	− 1·05	12·5	−13·0	18	−17
	Plymouth	62	49	59·0	51·4	55·1	+ 6·2	92	0	1	0·02	− 0·80	22·2	− 1·0	32	0
	Prawle Point	61	49	57·6	52·4	54·9	+ 6·5	90	0	1	0·01	− 0·85	*	*	*	*
9. IRELAND, N.	Malin Head	60	45	55·4	49·1	52·2	+ 5·1	71	0	1	0·11	?	*	*	*	*
	Londonderry	63	43	57·8	48·6	53·1	+ 7·7	78	0	2	0·41	− 0·59	*	*	*	*
	Edenfel (Omagh)	58	43	55·1	47·9	51.4	+ 7·6	66	0	2	0·37	− 0·48	*	*	*	*
	Belmullet	61	40	59·3	48·3	53·6	+ 4·7	81	0	3	0·20	− 1·07	*	*	*	*
	Markree Castle	60	31	56·6	46·8	51·6	+ 6·6	67	0	3	0·07	− 0·98	10·4	− 9·4	16	−12
	Armagh	61	33	57·0	46·5	51·7	+ 7·1	68	0	2	0·46	− 0·26	13·2	− 4·8	20	− 7
	Donaghadee	57	48	55·3	50·3	52·7	+ 6·6	75	0	2	0·51	− 0·31	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	61	45	58·1	50·1	54·0	+ 6·8	84	0	3	0·17	− 0·58	12·8	−10·2	19	−14
	Parsonstown	61	38	58·0	47·0	52·3	+ 6·5	72	0	2	0·30	− 0·32	12 1	− 7·9	18	−11
	Kilkenny	60	41	57·7	49·0	53·2	+ 7·3	78	0	2	0·44	− 0·34	*	*	*	*
	Roche's Point	58	50	57·3	53·0	55·1	+ 6·0	92	0	3	0·50	− 0·52	*	*	*	*
	Valencia	63	46	60·4	52·7	56·4	+ 6·7	101	0	5	0·50	− 0·88	21·6	− 0·8	32	0
	Killarney	63	41	60·6	50·4	55·4	+ 7·6	94	0	5	0·84	?	*	*	*	*
	Foynes	61	44	56·4	49·2	52·7	+ 6·1	75	0	3	0·31	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	52	59·0	53·3	56·1	+ 4·8	99	0	4	0·84	+ 0·04	9·7	?	14	?
	Jersey	63	49	61·1	52·1	56·5	+ 5·6	102	0	1	‡0·02	− 1·08	37·9	+10·9	55	+18

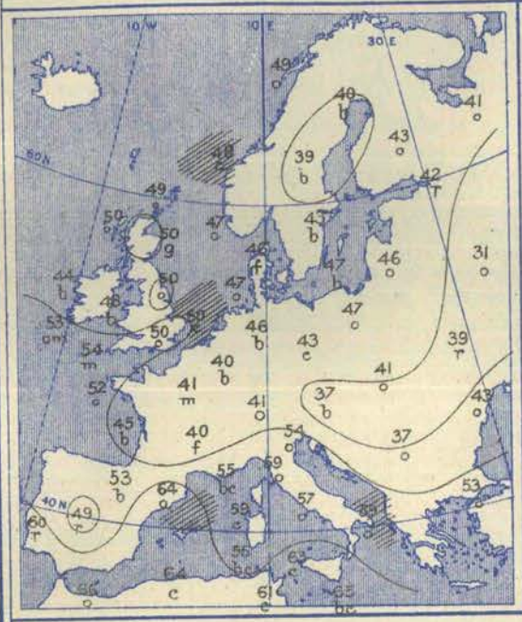
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ⚓ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page ‡ Wholly or partly wet fog or dew.

Sunday, 24th October.

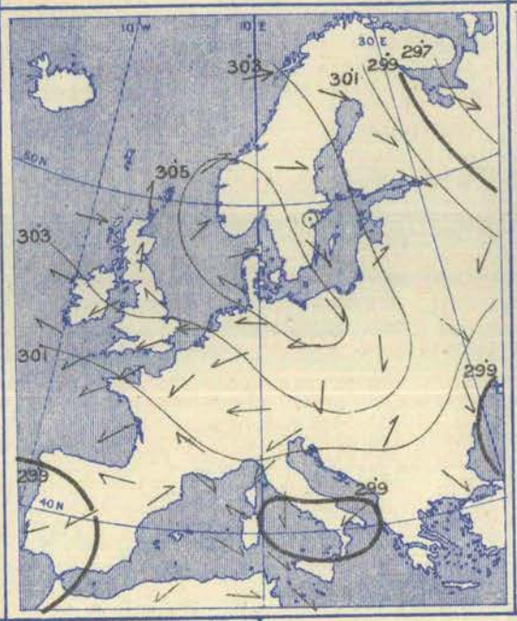
Temperature and Weather. 8 a.m.

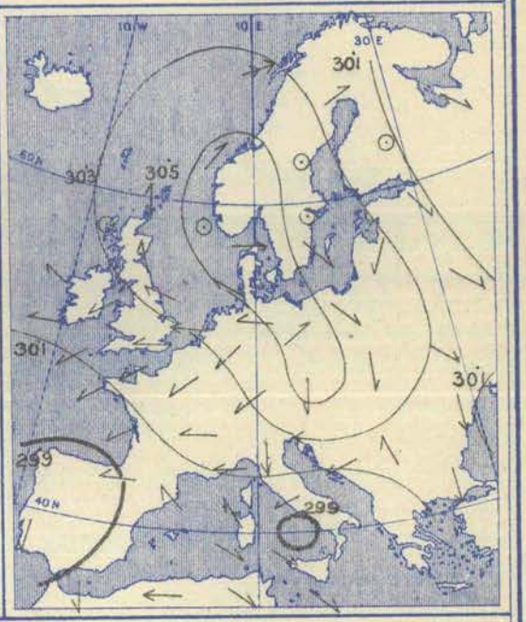


Weather in morning fair and quiet over nearly the whole of Europe—clear and bright in some places (especially over Sweden, the northern parts of the British Islands, and the north of France), but dull elsewhere, and in many places hazy or foggy. Considerable rain later in the Azores, and small quantities over both the extreme south-western and extreme north-western parts of the Continent, as well as in some parts of Algeria and the south of Russia. Considerable sunshine on our north-west and south-west coasts; fog locally in several parts of England, and rain still later over our south Midland counties.

Temperature in morning highest, 66° at Nemours, 65° at Malta, and exceeding 60° on the western and southern shores of the Mediterranean generally, 54° at Scilly, 53° at Valencia (Ireland) Lowest, (1) 31° at Moscow, 36° at Kharkov; (2) 31° at Nairn, 36° at Wick. Not touching 60° over Great Britain and Ireland later, but rising to 61° at Nice, and 68° at Biarritz, Lisbon, and Ponta Delgada (Azores).

Barometer and Wind. 8 a.m. and 6 p.m.



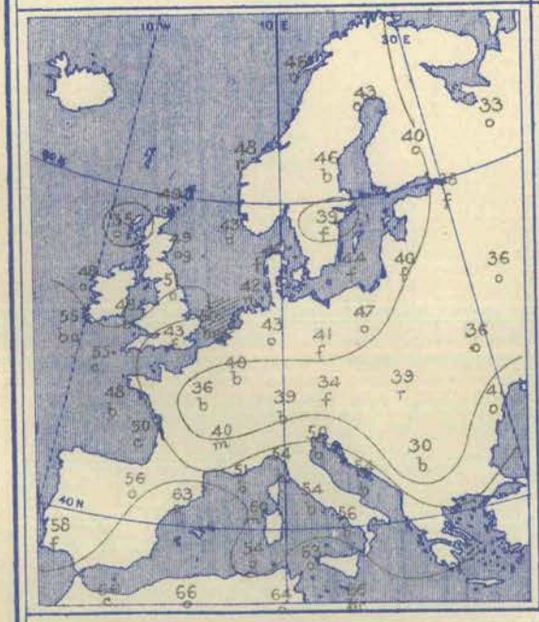


Wind anticyclonic over almost the whole of Europe—chiefly Easterly over the southern and western countries; Southerly in the north-west, and North-Westerly to North-Easterly over Finland and Russia. A gale from West-North-West reported at Archangel. Becoming stronger from the Eastward over Ireland and England later, and a gale from West-South-West setting in at Bodö.

Barometer highest, 30·5 ins. and more over Denmark, the northern parts of Germany, and the south of Norway, and exceeding 30·2 ins. over the greater part of central and north-western Europe. Lowest, below 29·8 ins. over the north of Russia on the one hand, and below 29·0 ins. over the Iberian Peninsula, and also over the south of Italy and the Black Sea on the other. Gradients moderate to slight. Rising later in most places, but falling over the south of Italy and at Malta.

Monday, 25th October.

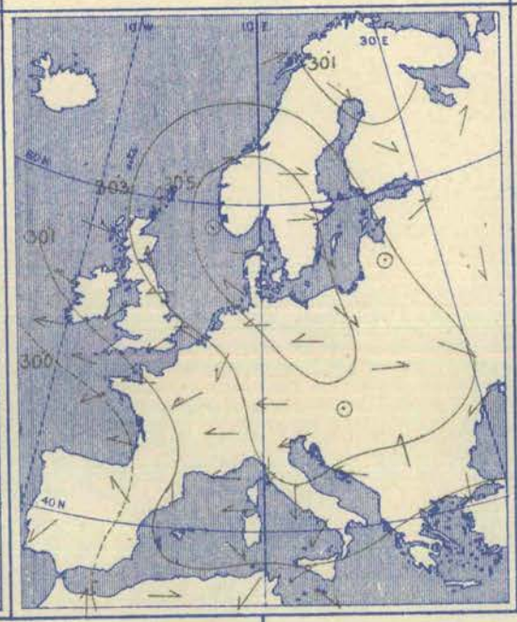
Temperature and Weather. 8 a.m.

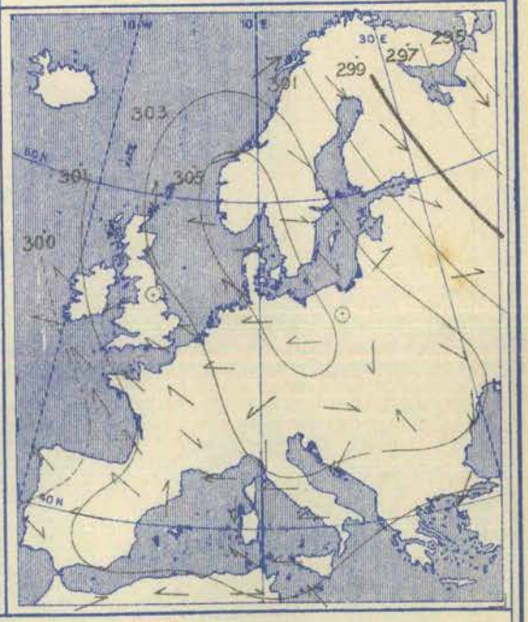


Weather in morning fair and quiet generally—clear and bright over France and south-eastern Europe, but very foggy over northern Europe and over several parts of Great Britain; dull over the southern and western parts of the Mediterranean. Fine over our Islands all day, but raining later over the southern half of our Midland counties; a slight further fall reported in the Azores, and a considerable fall at San Fernando.

Temperature changing very ritfully—especially over Scotland. Morning readings highest, 68° to 60° on the southern and western sides of the Mediterranean, 58° at Lisbon, 55° at Valencia (Ireland), 52° at the North Foreland, 51° at Shields, 49° at Wick. Lowest, (1) 32° at Nairn, 35° at Stornoway, 38° at Karlstad; (2) 33° at Archangel, 38° at St. Petersburg; (3) 31° at Kharkov, 36° at Kiev. Rising decidedly over France later, changing very irregularly over our Islands but rising in the south.

Barometer and Wind. 8 a.m. and 6 p.m.



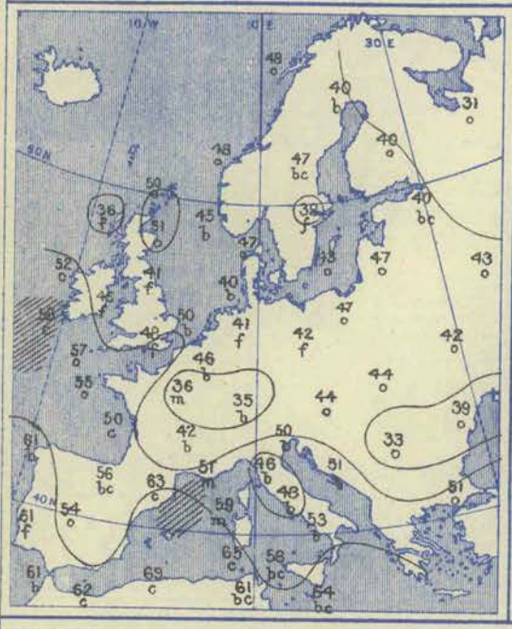


Wind (1) Easterly to South-Easterly over France and the British Islands, and blowing very freshly at the south-western and western stations—lightly elsewhere; (2) nearly calm over the eastern side of the North Sea, north Germany, Denmark, and the south of Norway; (3) North-Westerly over Finland and the Baltic. Moderating over our Islands later.

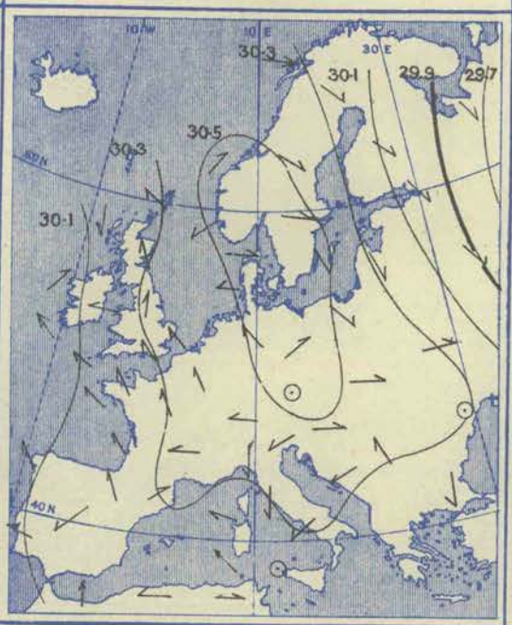
Barometer highest, 30·5 ins. and more to 30·3 ins. in a large anticyclone covering the greater part of north-western and central Europe. Lowest, (1) below 30·1 ins. over Lapland and the north of Finland; (2) below 30·0 ins. over the Bay of Biscay and much lower over the Azores; (3) below 30·0 ins. at Malta. Falling a little over our Islands later, rising over France.

Tuesday, 26th October.

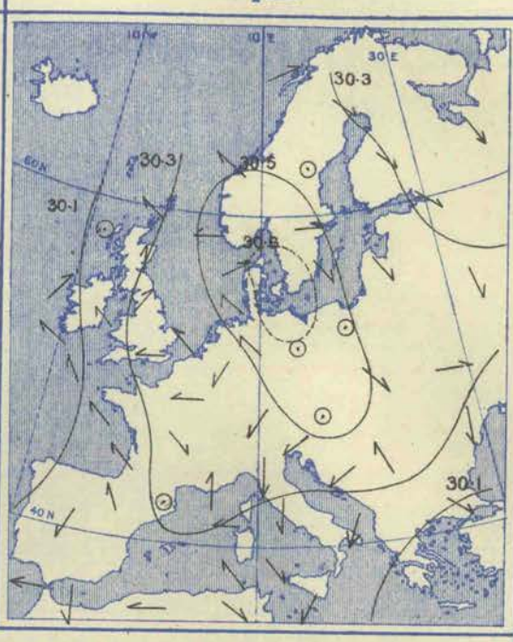
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair and very quiet over north-western, central, western, and southern Europe, including Great Britain; clear in many places, but foggy or very misty in others. Rain falling, however, over the south Midland counties of England, including London. Clearing up subsequently over England, but rain setting in at Valencia during the night, and a considerable fall occurring over Algeria; fog or haze continuing very prevalent over our eastern districts and the Continent.

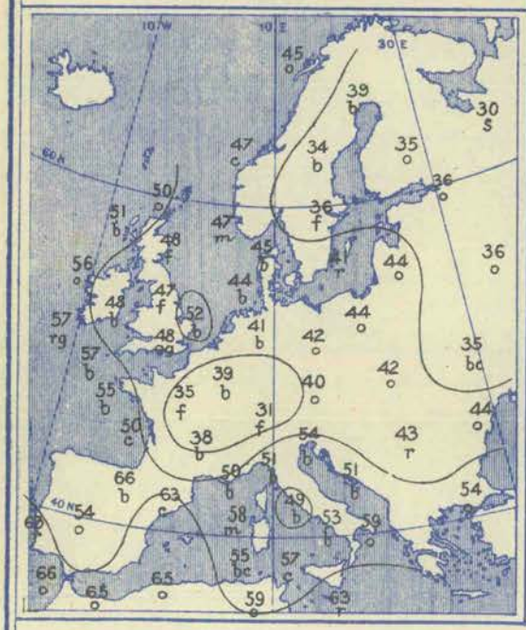
Temperature risen over England, Ireland, and Brittany. Morning readings highest, 69° to 58° on the southern and western sides of the Mediterranean, 58° at Valencia and Jersey, 54° at the North Foreland, 52° at Donaghadee. Lowest, (1) 31° at Archangel, 39° at Uleaborg; (2) 33° at Karlstad, 35° at Faerder; (3) 32° at Nairn, 36° at Leith and York, 35° at Munich, 36° at Paris, 37° at Belfort. Rising to between 60° and 63° over many parts of Ireland and England later, and touching 67° at Paris, 70° at Cagliari, and 75° at Biarritz, but not exceeding 45° at Berlin. Rising rapidly over our northern districts.

Wind light and anticyclonic all over Scandinavia and central Europe. Light North-Westerly to Westerly over Russia, but South-Easterly over the British Islands, and blowing freshly on our south-west coasts.

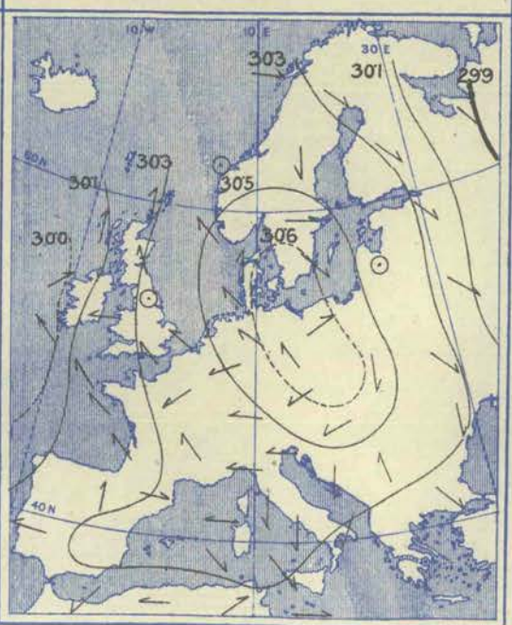
Barometer highest, 30·5 ins. and more to 30·3 ins. in a large anticyclone covering the whole of Scandinavia, central, southern, and south-eastern Europe. Lowest, (1) below 29·8 ins. over eastern Russia; (2) below 30·0 ins. off the west and south-west of Ireland. No decided change taking place later.

Wednesday, 27th October.

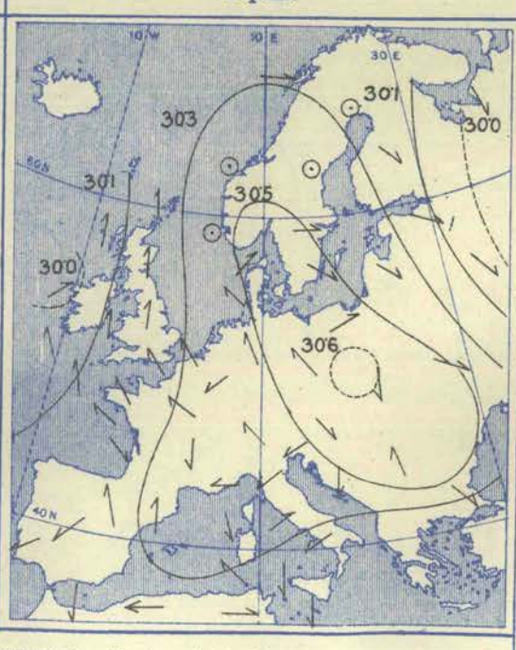
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning quiet, but very dull and foggy over England, France, and many parts of central Europe, as well as in the south of Norway; fine over the northern and western parts of Great Britain; unsettled in the west of Ireland, with rain at Valencia. About 0·1 in. of rain falling later in the south of Ireland, much dew and wet fog over England, and some rain at Munich. Aurora seen at Wick, and a parhelion at Jersey.

Temperature changing very irregularly over the north of our Islands—risen fast at many stations, but becoming more evenly distributed in Scotland than of late. Morning readings highest, 66° at San Fernando and Biarritz, 58° at Jersey, 57° at Scilly and Valencia, 53° at Dungeness, 51° at Stornoway. Lowest, (1) 30° at Archangel, 35° at Kuopio, 36° to 35° over Russia as a whole, 33° at Karlstad, 38° at Faerder; (2) 31° at Munich, 35° at Paris, 38° at Lyons. Rising later to between 62° and 60° at several of our south-western stations, to 64° at Paris and Brussels, 70° at Cagliari, and to 77° at Biarritz; not exceeding 45° at Berlin.

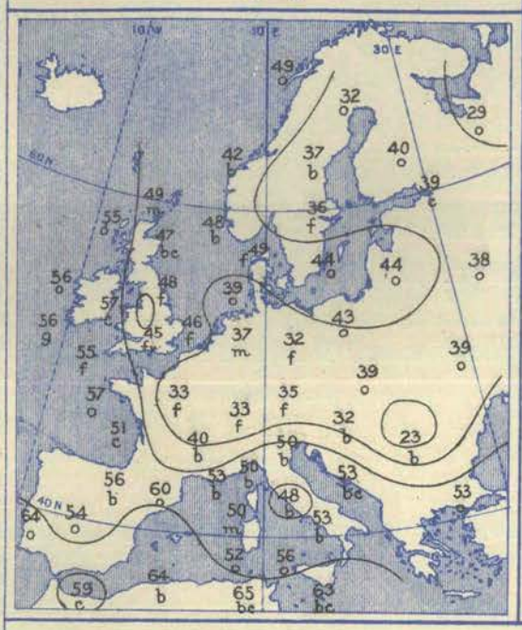
Wind very light and anticyclonic all over Scandinavia, central, and many parts of south-western, southern, and south-eastern Europe; light North-Westerly over Russia; light South-Easterly over Great Britain; but fresh over Ireland and the Irish Channel. No decided change later.

Barometer highest, 30·6 ins. and more over Germany and the south of Sweden, and exceeding 30·3 ins. all over Scandinavia, the Baltic, and the central and southern countries of Europe. Lowest, below 30·0 ins. (1) over the north-east of Russia; (2) off the extreme west and south-west of Ireland, and over the Azores. Giving way a little later within the anticyclonic system, but rising slightly in the south-west of Ireland until late at night.

Thursday, 28th October.

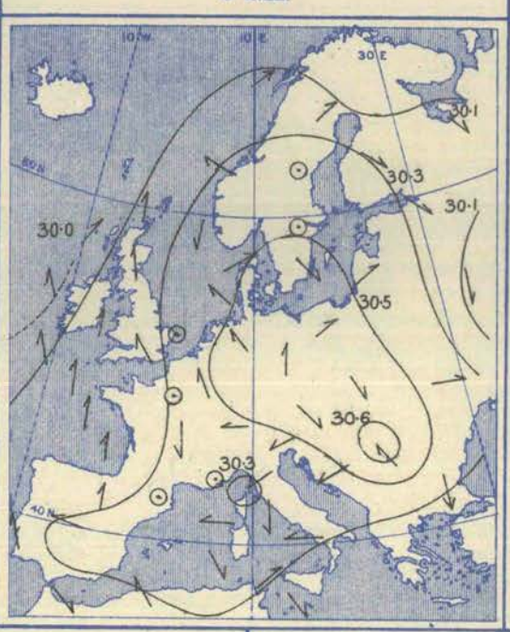
Temperature and Weather.

8 a.m.

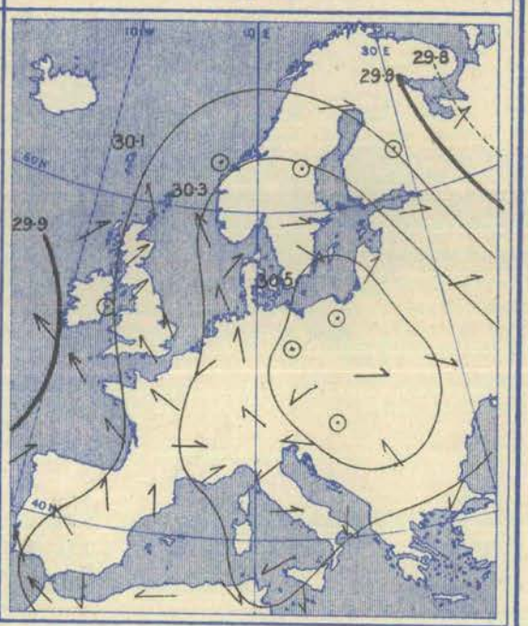


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and foggy over England and the south of Scotland, and also at some Continental stations, but fine and bright over southern Europe generally, unsettled in the west of Ireland, with showers at Valencia (Ireland). Fog becoming very dense and wet in London during the day, but clearing somewhat towards evening.

Temperature still changing very irregularly over the United Kingdom, falling somewhat decidedly over central Europe. Morning readings highest, 65° at La Calle, 64° at Lisbon and Algiers, 63° at Malta, 60° at Barcelona, 57° at Brest, and 56° at Donaghadee, Pembroke, and Valencia (Ireland). Lowest, (1) 23° at Hermanstadt, 29° at Archangel, 32° at Kuopio and Berlin, and 33° at Paris, Munich, and Buda Pesth, (2) 37° at Loughborough, 42° at York, and 43° at Cambridge. Rising later to between 60° and 63° at several of our southern stations, to 66° in Paris, 72° at Rochefort, and to 77° at Biarritz.

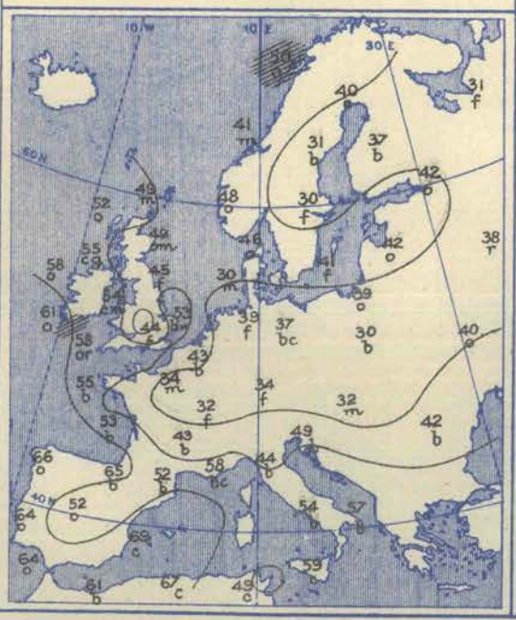
Wind light and anticyclonic over Scandinavia and central Europe generally, light from North West over Russia, and light from South-East over Great Britain, but fresh on our western coasts. Wind increasing to a strong gale from the Southward at Belmullet during the night, little change elsewhere.

Barometer highest, 30·6 ins. and more in an anticyclone lying over Germany and Austria, and exceeding 30·3 ins. over Scandinavia, the Baltic and central Europe. Lowest, 30·0 ins. and less off our western coasts, and below 30·1 ins. over northern and central Russia. Barometer rising slowly at the Mediterranean stations, but falling in most other places; fall becoming more decided over Ireland during the day.

Friday, 29th October.

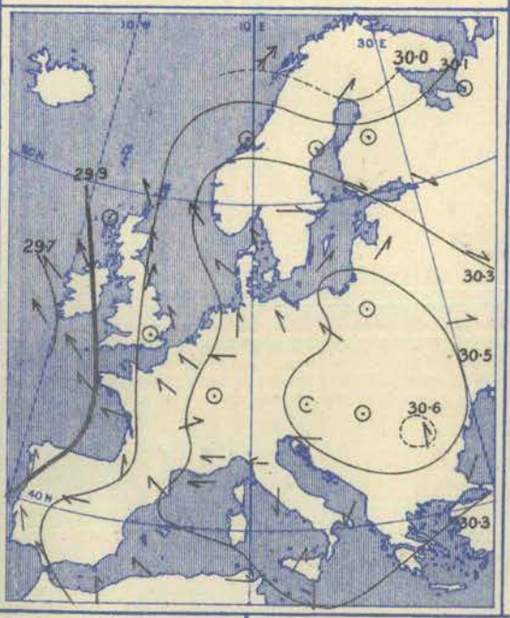
Temperature and Weather.

8 a.m.

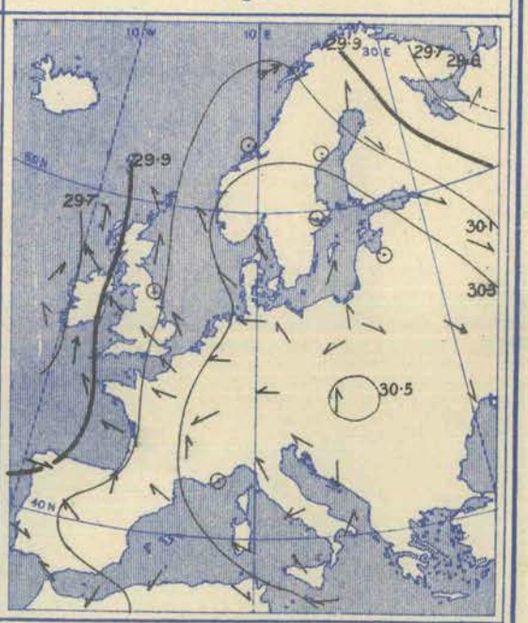


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning very fine and bright over the Mediterranean and many parts of France—quiet and foggy over central Europe, the Baltic, the North Sea, and the eastern half of Great Britain generally; dull and rainy over Ireland and the extreme south-west of England. Rain falling later over all our western districts and some of the western parts of France, and in Portugal, and a considerable quantity over the west of Lapland, but bright conditions prevailing over England.

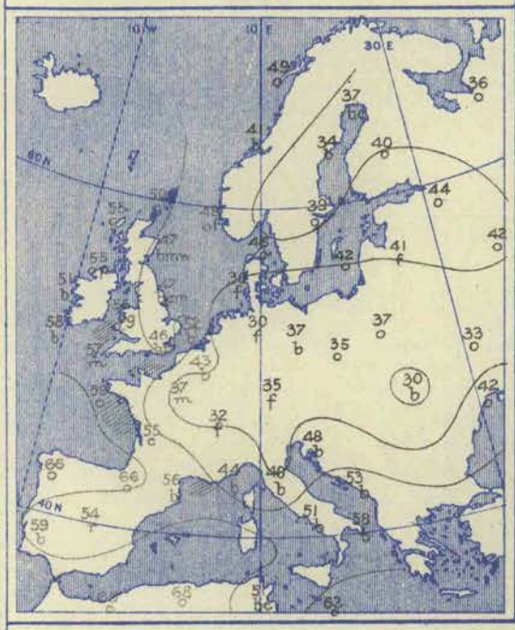
Temperature risen over Ireland, fallen over England. Morning readings highest, 67° both at Algiers and Bilbao, 66° at Corunna, 61° at Valencia (Ireland), 58° at Jersey. Lowest, (1) 31° at Archangel and Hernösand, 37° at Kuopio; (2) 31° at Cracow, 32° at Buda Pesth, Vienna, and Munich; (3) 35° at Loughborough, 36° at Oxford. Rising quickly later to between 60° and 66° over England, to 64° at Paris, 70° at Sanguinaire, 72° at Cagliari, 73° at Biarritz, and 79° at La Calle.

Wind (1) light and anticyclonic over all the southern and central countries of Europe, as well as over Denmark and the Baltic; (2) South-Easterly over the United Kingdom—strong to a gale in force at the Irish stations, but light in the east; (3) South-Westerly over Lapland, and blowing a gale at Bodö. Gale in west subsiding later; very little change over England.

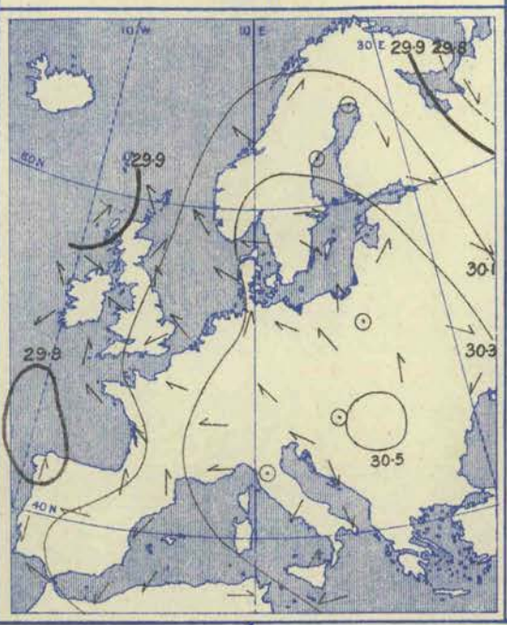
Barometer highest, 30·6 ins. and more to 30·2 ins. in a large anticyclone covering nearly the whole of Europe, and having its central area over Hungary. Lowest, below 29·7 ins. off the west of Ireland, and below 30·0 ins. over Lapland. Falling a little during day over the British Islands and France, but rising in the west of Ireland towards night.

Saturday, 30th October.

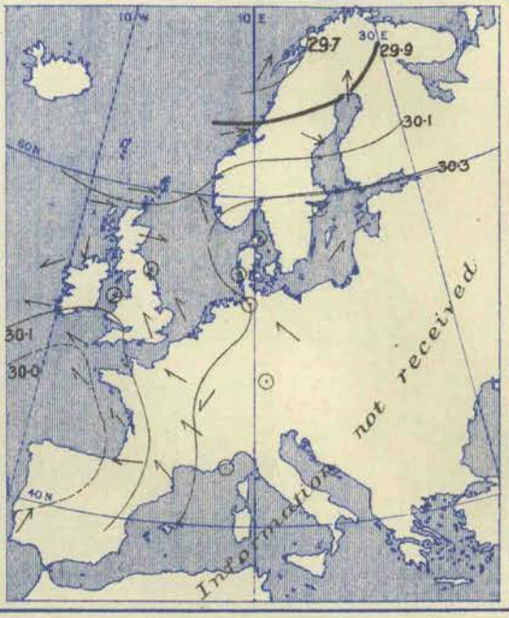
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair and quiet over the whole of central and many parts of northern Europe, the North Sea, and the eastern half of Great Britain, but foggy at many of the Continental stations; very hazy over England; dull and rainy in Wales and the west and north-west of England, and on the coasts of Brittany. Some rain falling later in all the last-named districts, and a considerable quantity both in the west of Lapland and the south of Portugal. Remaining fine elsewhere, and fog clearing temporarily in many places.

Temperature changing very fitfully. Morning readings highest, 68° at Algiers, 66° at Corunna and Biarritz, 59° at Brest, 58° at Valencia (Ireland), 57° at Hurst Castle, 55° at Malin Head and Stornoway. Lowest, (1) 30° to 35° over the greater part of central Europe; (2) 34° at Hernösand, 37° at Haparanda, 38° at Karlstad; (3) 42° to 44° over the central parts of England. Rising later to between 62° and 66° over England, and touching 75° at Biarritz, but not to nearly so high a value over central Europe.

Wind light and anticyclonic over northern and central Europe as a whole; moderate to fresh from South-East over the Bay of Biscay and the south of our Islands; light from South in the north—North-Easterly at Valencia. The South-Easterly wind dying down later, and Northerly to North-Easterly airs setting in over the north of Ireland.

Barometer highest, 30·5 ins. to 30·1 ins. over almost the whole of Continental Europe and the eastern half of England. Lowest, below 29·8 ins. at Archangel, and below 29·9 ins. in two shallow depressions—one off the north-west of Scotland, the other somewhat to the north-westward of Corunna. Latter system moving north-eastwards later.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Throughout the week anticyclonic conditions have prevailed over Europe as a whole, the only parts affected materially by cyclonic conditions being, on the one hand, the extreme west of our Islands, and of the Spanish Peninsula, and, on the other hand, the northern and north-eastern parts of Russia. The centre of the anticyclone lay at first over the eastern shores of the North Sea, thence it moved eastwards and south-eastwards, its central area covering the south of Sweden and north of Germany on Wednesday, and Austria-Hungary between Thursday and Saturday.

The prevalent winds have consequently been light in force and anticyclonic in direction—the relative positions of the anticyclonic and cyclonic systems being such as to cause South-Easterly winds over the United Kingdom, but Westerly to North-Westerly over Russia.

Temperature has been low inland on several nights, but some of the days were quite warm over England—especially Friday and Saturday, when the fog cleared and the thermometer rose to 66° in the shade in some localities.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 254.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	14·0	− 4·2	22	− 3	EASTBOURNE	41·2	+17·2	60	+27
OSWALDKIRK (Yorkshire)	24·1	+ 7·0	36	+11	VENTNOR	32·9	?	48	?
WORKSOP	14·7	− 2·7	22	− 2	SOUTHPORT	22·1	?	33	?
THURCASTON (Leicestershire)	16·1	− 2·4	24	− 2	COLWYN BAY	31·0*	?	46*	?
MARGATE	45·5	+23·1	66	+35	TENBY	24·3*	+ 1·5	36*	+ 5
WESTBOURNE (Sussex)	38·5*	+15·5	56*	+24	NEWQUAY				
BRIGHTON	38·9	+13·1	56	+19	TORQUAY	13·4*	− 9·1	19*	− 12
					GUERNSEY	37·0*	+13·3	54*	+21

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder, and at Colwyn Bay also the record is, temporarily, that of a Jordan's Recorder.

WYMAN & SONS, LTD. LITH. 63, CARTER LANE

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

By whom Subscriptions, payable in advance, can be received.

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VOL. XIV NO. 44.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 6TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 260.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	64	23	49·7	37·5	43·7	1 above	31	+ 5	13	+ 1	2059	+186	652	- 13
	1. SCOTLAND, EAST	59	26	48·6	39·5	44·1	2 above	25	- 3	7	- 8	2270*	+ 14	703	+ 4
	2. ENGLAND, N.E.	60	36	50·1	44·3	47·2	3 above	36	+ 4	0	- 8	2526	+ 82	477	- 93
	3. ENGLAND, EAST	59	31	50·0	40·0	45·0	0 (average)	29	-10	6	- 4	2960	+135	509	-134
	4. MIDLAND COUNTIES	59	32	48·9	40·7	44·8	1 above	25	-11	4	- 8	2870	+ 70	522	-135
	5. ENGLAND, SOUTH	62	36	51·4	42·8	47·1	1 above	36	- 9	0	- 6	3320	+248	297	-198
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	62	30	51·5	42·7	47·1	3 above	36	+ 2	0	-10	2471	+ 94	451	- 40
	7. ENGLAND, N.W.	63	37	51·8	43·2	47·5	2 above	39	+ 2	0	- 6	2758	+154	367	-109
	8. ENGLAND, S.W.	62	29	52·3	43·1	47·8	1 above	41	- 5	0	- 3	3134	+254	223	-148
	9. IRELAND, NORTH	62	33	52·8	44·1	48·5	4 above	46	+ 9	0	- 7	2552*	+ 48	404	- 10
	10. IRELAND, SOUTH	61	33	54·6	44·3	49·5	3 above	53	+ 8	0	- 6	3021	+185	242	- 76
	—CHANNEL ISLANDS	61	41	55·5	48·2	51·9	2 above	69	+ 3	0	0	3668	+371	68	- 80

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 260.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	0	less than ½	13 less	189	-13	34·9	- 5·2	24	+11	40	+20	1205	+195	30	+ 5
	1. SCOTLAND, EAST	2	1	7 less	170	+ 4	24·2	- 2·4	10	- 6	17	- 7	1293	+ 92	32	+ 2
	2. ENGLAND, N.E.	2	1	6 less	151	- 4	20·1	- 1·9	4	-12	7	-18	1378	+168	34	+ 4
	3. ENGLAND, EAST	1	1	6 less	146	- 6	19·7	- 2·1	15	- 5	23	- 5	1528	+ 96	39	+ 3
	4. MIDLAND COUNTIES	0	less than ½	6 less	144	- 4	22·5	- 1·3	13	- 5	20	- 6	1441	+148	36	+ 3
	5. ENGLAND, SOUTH	0	less than ½	8 less	137	- 7	21·8	- 2·4	24	+ 4	37	+ 8	1594	+ 89	40	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	0	—	12 less	181	+ 8	35·6	- 4·2	17	- 9	27	- 7	1344	+ 36	33	+ 1
	7. ENGLAND, N.W.	0	—	9 less	166	+ 5	27·5	- 1·5	23	+ 9	36	+15	1447	+136	35	+ 3
	8. ENGLAND, S.W.	0	less than ½	10 less	172	+ 9	34·6	+ 2·5	20	- 1	31	0	1548	+ 2	39	0
	9. IRELAND, NORTH	0	—	9 less	194	+ 6	33·1	+ 2·0	19	+ 1	29	+ 2	1210	+ 35	30	0
	10. IRELAND, SOUTH	1	less than ½	9 less	183	+14	36·5	+ 4·4	27	+ 7	42	+12	1328	- 9	34	0
	— CHANNEL ISLANDS	1	less than ½	9 less	184	+13	29·3	+ 2·2	26	+12	39	+20	1621	-120	42	- 4

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period continued very dry generally, the only rain experienced having fallen at some of our south-western stations on October 31st, and in the east and south-east of England on November 6th. Local fogs and mists prevailed during the earlier part of the week, and a good deal of cloud and gloom later on.

Temperature was rather above the mean almost everywhere, but only just equalled it in England E. The highest of the maxima were registered during the earlier part of the week, when they varied from 64° in Scotland N., 63° in England N.W., and 62° in several other districts, to 59° in England E., the Midland counties, and Scotland E. The lowest of the minima, which occurred towards the end of the week, ranged from 23° in Scotland N., 26° in Scotland E., and 29° in England S.W., to 37° in England N.W., and to 41° in the Channel Islands.

Rainfall was much less than the mean in all districts. In many parts of the Kingdom there was a complete absence of rain, but at most of the central and eastern stations measureable amounts of water were deposited in the gauge by wet fogs and heavy dews.

Bright Sunshine varied greatly in different parts of the Kingdom; in some cases being considerably below the mean value, and in others above it. The percentage of the possible duration ranged from 42 in Ireland S., and 40 in Scotland N., to 20 in the Midland counties, 17 in Scotland E., and 7 in England N.E.

Barometer and Wind.—The distribution of barometric pressure during this period was anticyclonic, the central area of high readings lying at first off our north-east coasts, and subsequently to the eastward of the North Sea. Depressions were shown both in the far north and over Spain, but the only disturbance in our immediate neighbourhood was a very shallow system, which was formed over the southern parts of the North Sea on Thursday night. Easterly and North-Easterly winds, light or moderate in force, were prevalent in all the more southern parts of the Kingdom, South-Easterly breezes in Ireland, and moderate or light Southerly winds over the north and east of Scotland.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 259 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	51	39	49·4	42·9	46·2	+ 2·9	29	0	0	—	- 1·02	*	*	*	*
	Stornoway	58	32	54·7	37·3	46·0	+ 3·0	48	13	1	‡0·03	- 1·14	25 5	+9·7	42	+17
	Wick	55	33	50·6	40·4	45·5	+ 2·8	31	4	1	0.01	- 0·77	*	*	*	*
	Lairg Ⓢ	64	27	46·1	33·3	39·7	- 1·6	11	33	1	0·07	- 0·78	*	*	*	*
	Glencarron Ⓢ	56	28	50·3	36·2	43·3	+ 1·2	33	16	0	—	- 2·19	*	*	*	*
	Fort Augustus Ⓢ	54	23	46·8	34·1	40·5	- 3·0	13	31	0	‡0·03	- 0·92	20·5	+11·1	34	+20
	Fort William Ⓢ	56	31	50·3	38·6	44·5	+ 0·5	32	10	0	—	- 1·72	26·1	+12·6	43	+22
1. SCOTLAND, E.	Nairn	54	26	46·4	34·4	40·4	- 1·9	12	30	2	‡0·06	- 0·42	*	*	*	*
	Aberdeen	51	42	48·7	45·1	46·9	+ 3·9	34	0	2	0·04	- 0·62	0·0	-19·4	0	-29
	Braemar Ⓢ	52	26	47·7	33·7	40·7	+ 1·0	16	33	2	0·04	- 0·91	23·0†	+12·5†	38†	+21†
	Ochtertyre Ⓢ	52	41	49·0	42·3	45·7	+ 2·9	26	0	2	‡0·03	- 0·97	*	*	*	*
	Leith	? 54	39	50·1	41·7	45·9	+ 1·7	29	1	2	0·12	- 0·30	*	*	*	*
	Marchmont Ⓢ	59	37	49·7	39·7	44·7	+ 2·7	29	6	2	‡0·07	- 0·68	6·0	-10·8	10	-16
2. ENGLAND, N.E.	Alnwick Castle	60	43	50·9	44·4	47·7	+ 4·2	40	0	1	‡0·03	- 0·65	*	*	*	*
	Durham	52	43	48·5	43·7	46·1	+ 3·3	29	0	3	0·11	- 0·57	1·0	-15·8	2	-23
	Shields	54	44	50·0	45·3	47·7	+ 3·2	40	0	1	0·02	- 0·55	*	*	*	*
	Scarborough Ⓜ	54	44	51·3	45·6	48·5	+ 3·2	46	0	2	‡0·06	- 0·66	5·9	?	9	?
	York	51	36	49·7	42·0	45·9	+ 2·1	27	0	0	‡0·03	- 0·55	1·8	-14·0	3	-20
	Spurn Head	52	42	50·0	44·9	47·5	+ 1·8	39	0	2	‡0·04	- 0·51	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	59	38	50·7	40·8	45·8	+ 1·7	32	3	2	‡0·08	- 0·52	17·6	- 0·2	28	0
	Yarmouth	55	41	50·3	43·1	46·7	+ 1·2	33	0	1	‡0·12	- 0·58	*	*	*	*
	Geldeston	59	31	49·6	39·9	44·8	- 0·3	28	6	0	‡0·01	- 0·62	10·7	- 9·3	16	-11
	Cambridge	52	31	49·7	37·4	43·6	- 1·1	31	13	1	0·02	- 0·50	13·8	- 6·2	21	- 7
	Rothamsted	57	34	49·6	38·6	44·1	+ 0·5	29	10	0	‡0·01	- 0·67	17·6	- 3·4	27	- 3
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	50	38	48·4	42·6	45·5	+ 2·0	25	0	1	‡0·05	- 0·50	*	*	*	*
	Loughborough	51	34	48·4	41·0	44·7	+ 0·1	23	3	1	0·02	- 0·56	*	*	*	*
	Stamford (Duddington)	51	35	48·0	40·3	44·2	+ 0·3	23	5	1	‡0·04	- 0·56	*	*	*	*
	Cheadle Ⓜ	54	42	48·1	42·1	45·1	+ 2·0	22	0	0	—	- 0·80	*	*	*	*
	Shirley (near Solihull)	58	34	50·1	39·6	44·9	+ 1·7	30	7	1	0·01	?	*	*	*	*
	Churchstoke Ⓜ	56	32	47·8	38·0	42·9	- 1·1	23	11	0	—	- 0·83	12·8	- 4·9	20	- 5
	Hereford Ⓜ	58	37	50·2	41·0	45·6	+ 0·8	29	3	0	—	- 0·58	*	*	*	*
	Cirencester	57	40	49·1	41·4	45·3	+ 1·7	26	2	0	—	- 0·73	21·6	+ 1·6	33	+ 4
	Oxford	59	39	50·4	40·4	45·4	+ 0·4	31	4	0	—	- 0·54	22·6	+ 2·9	35	+ 7
5. ENGLAND, S.	London	58	40	51·3	42·3	46·8	+ 0·8	34	0	1	0·01	- 0·61	8·3†	- 6·7†	13†	- 7†
	North Foreland	58	41	50·3	44·1	47·2	+ 1·7	36	0	1	‡0·12	?	*	*	*	*
	Dungeness	60	40	51·4	44·7	48·1	+ 0·5	43	0	0	—	- 0·78	*	*	*	*
	Hastings (St. Leonards)	58	39	50·5	41·7	46·1	- 0·9	30	1	0	—	- 0·87	28·3	+ 6·3	43	+10
	Southampton	62	38	53·5	41·2	47·4	+ 0·8	41	2	0	‡0·01	- 0·77	25·4	+ 1·4	38	+ 5
	Hurst Castle	60	40	53·3	45·3	49·3	+ 1·6	51	0	0	—	- 0·79	*	*	*	*
	Shaftesbury Ⓜ	58	36	49·3	40·0	44·7	+ 0·9	27	6	0	—	- 0·84	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	58	38	53·1	42·9	48·0	+ 3·1	42	0	0	—	- 1·82	*	*	*	*
	Glasgow	53	43	48·8	44·5	46·7	+ 2·9	33	0	0	—	- 0·89	4·8	- 7·7	8	-10
	Ardrossan	54	39	48·9	43·4	46·2	+ 1·0	29	0	0	—	- 0·90	*	*	*	*
	Glenlee Ⓢ	59	30	52·4	37·9	45·2	+ 2·2	40	11	0	—	- 1·42	*	*	*	*
	Gilcrux (Cumberland)	62	36	53·4	40·5	47·0	+ 3·7	41	4	0	‡0·01	?	29·4	?	47	?
	Douglas (Isle of Man)	57	45	52·2	47·1	49·7	+ 4·4	54	0	0	—	- 1·10	16·2	- 2·6	25	- 4
7. ENGLAND, N.W.	Stonyhurst	55	41	49·4	43·1	46·3	+ 2·6	30	0	0	—	- 1·13	18·9	+ 4·1	30	+ 8
	Blackpool Ⓜ	60	37	53·0	42·0	47·5	+ 2·4	39	0	0	—	- 0·87	17·5	+ 2·1	27	+ 4
	Manchester (Prestwich)	59	42	50·6	42·6	46·6	+ 2·4	32	0	0	—	- 0·85	19·0	?	28	?
	Liverpool Obsy. (Bidston)	57	39	51·0	42·7	46·9	+ 1·4	34	0	0	—	- 0·70	*	*	*	*
	Llandudno Ⓜ	63	40	53·3	44·0	48·7	+ 1·7	47	0	0	—	- 0·89	34·1	+18·4	53	+31
	Holyhead	60	42	53·4	44·7	49·1	+ 1·6	50	0	0	—	- 1·00	*	*	*	*
8. ENGLAND, S.W.	Llandovery	61	29	52·6	39·1	45·9	+ 1·1	39	8	0	—	- 1·27	*	*	*	*
	Pembroke	58	41	52·1	45·1	48·6	+ 0·1	46	0	1	0·01	- 0·94	25·3	+ 6·2	39	+10
	Clifton	59	? 41	51·1	? 43·8	? 47·5	? + 2·2	? 39	0	0	—	- 0·82	*	*	*	*
	Arlington (N. Devon)	61	30	52·7	39·3	46·0	+ 0·5	39	8	0	—	- 1·52	*	*	*	*
	Cullompton Ⓜ	62	33	52·1	40·8	46·5	+ 2·4	37	3	0	—	- 0·88	22·9	+ 4·7	35	+10
	Falmouth	59	39	54·0	47·3	50·7	+ 2·4	61	0	1	0·03	- 1·25	10·3	-12·9	16	-18
	Plymouth	60	37	52·2	43·7	48·0	0·0	42	0	1	0·02	- 0·80	21·3	+ 0·1	32	+ 4
	Prawle Point	60	39	51·9	46·0	49·0	+ 1·7	49	0	0	—	- 0·83	*	*	*	*
9. IRELAND, N.	Malin Head	57	42	51·6	45·4	48·5	+ 2·3	46	0	0	—	?	*	*	*	*
	Londonderry	58	36	53·3	42·9	48·1	+ 3·7	43	0	1	0·01	- 0·99	*	*	*	*
	Edenfel (Omagh)	56	41	50·9	44·6	47.8	+ 4·8	41	0	0	—	- 0·85	*	*	*	*
	Belmullet	60	36	54·4	43·3	48·9	+ 1·3	48	0	0	—	- 1·32	*	*	*	*
	Markree Castle	62	33	53·9	41·8	47·9	+ 3·8	42	1	0	—	- 1·04	23·0	+ 4·8	36	+ 9
	Armagh	57	35	52·9	42·0	47·5	+ 3·8	39	0	0	‡0·02	- 0·71	14·2	- 2·0	22	- 4
	Donaghadee	57	46	52·6	48·4	50·5	+ 5·5	60	0	0	—	- 0·82	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	59	42	54·3	46.4	50·4	+ 4·2	59	0	0	—	- 0·72	19·4	- 1·5	30	- 1
	Parsonstown	60	34	54·4	40·9	47·7	+ 2·6	45	3	0	—	- 0·60	26 6	+ 8·8	42	+14
	Kilkenny	58	35	54·6	43·0	48·8	+ 3·8	48	0	0	—	- 0·78	*	*	*	*
	Roche's Point	58	45	54·1	49·0	51·6	+ 3·4	67	0	1	0·01	- 1·07	*	*	*	*
	Valencia	61	35	56·6	45·0	50·8	+ 2.0	62	0	2	0·14	- 1·26	35·1	+14·6	54	+24
	Killarney	60	33	54·8	45·6	50·2	+ 3·3	57	0	0	—	?	*	*	*	*
	Foynes	58	35	53·3	40·2	46·8	+ 1·0	41	5	2	0·06	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	45	56·4	50·9	53·7	+ 3·1	82	0	1	0·03	- 0·78	8·5	?	13	?
	Jersey	61	41	54·6	45·4	50·0	+ 0·1	56	0	0	‡0·01	- 1·09	41·9	+17·3	63	+29

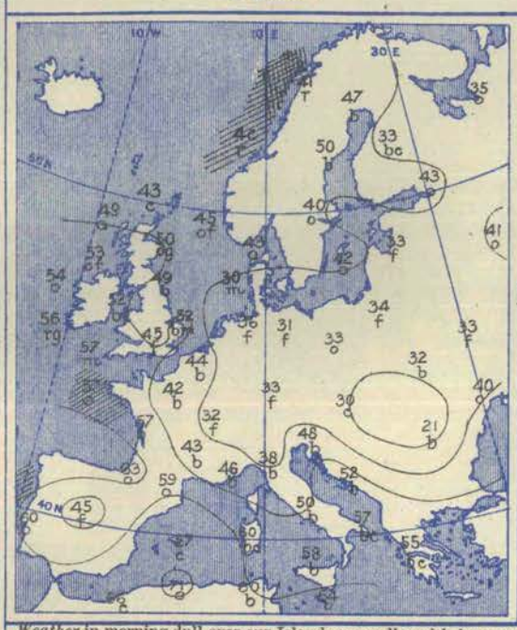
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

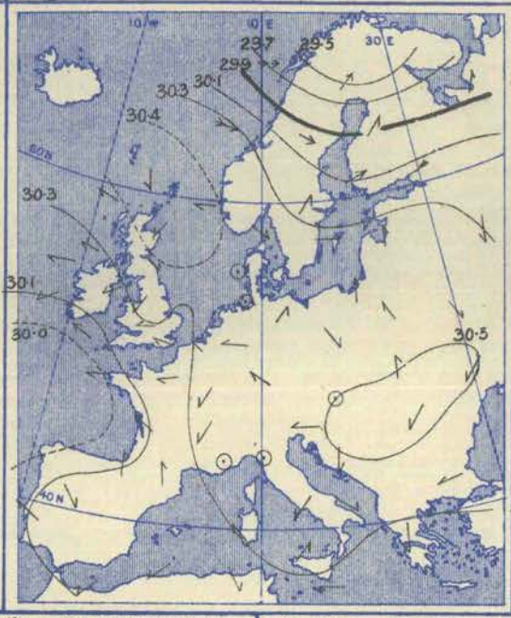
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page ‡ Wholly or partly dew.

Sunday, 31st October.

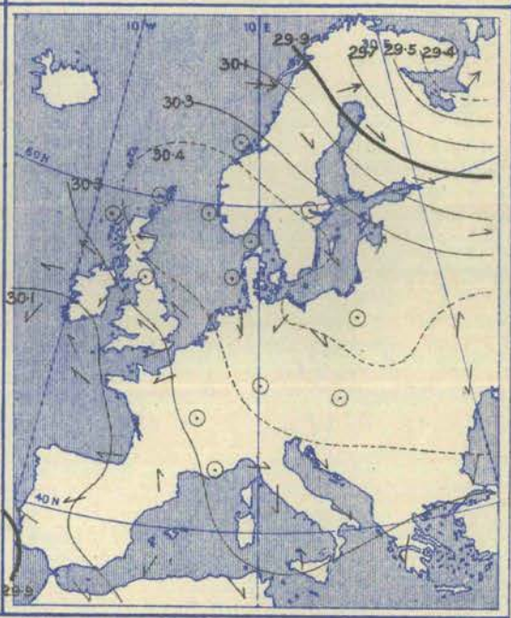
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull over our Islands generally, with fog over the eastern and central parts of England, and with rain in the south of Ireland. Very foggy over Germany, but fine in most parts of Austria, Italy, and central France, as well as in Sweden. Rainy in the west of Norway; dull in Russia and also over the Spanish Peninsula and the west of France, with rain at Lorient. Fog clearing later over the eastern parts of England; showers falling on our south-west coasts, and heavy rain at Bodö as well as at Madrid and Oran.

Temperature risen a little in France, the Netherlands, and Scandinavia; fallen in most other countries. Morning readings highest, 71° at Algiers, 67° at Palma, and 66° at Nemours and Oran; exceeding 60° at many of the Mediterranean stations, and exceeding 55° on our own extreme south-west coasts. Lowest, (1) 21° at Hermanstadt, 30° at Buda-Pesth, and 31° at Münster and Berlin; (2) 33° at Kuopio and 35° at Archangel; (3) 36° at Loughborough and 37° at Cambridge. Rising during day to between 55° and 60° at most of our own western and southern stations; exceeding 60° over Belgium, France, Spain, and Italy, and reaching 72° at Cagliari. Slight frost occurring over central England at night.

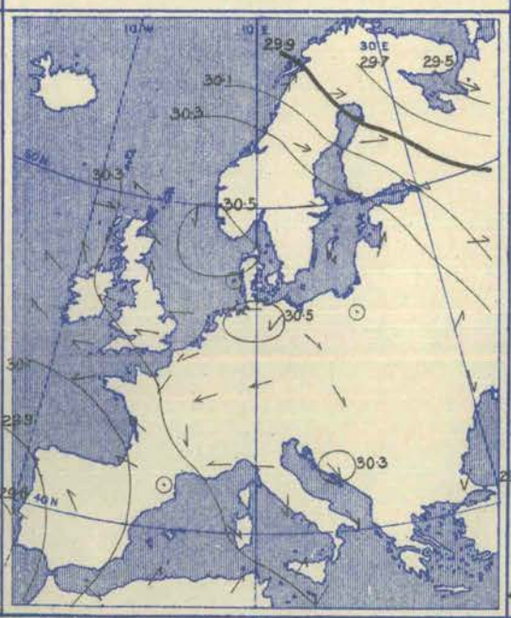
Wind light from the Eastward over the greater part of our Islands and France, but fresh from the South-Eastward over our south-west coasts and the Bay of Biscay. Westerly or South-Westerly over Scandinavia and northern Russia, with a strong gale in the west of Norway. Light from the Northward over the central and southern parts of Russia, and also over Italy, variable in Austria and also over the Spanish Peninsula. Gale beginning to subside later in the west of Norway; no important change occurring elsewhere.

Barometer highest, 30·5 ins. and upwards over southern Austria; 30·4 ins. and upwards over the North Sea and the north of Scotland, 30·3 ins. and upwards in an anticyclone embracing all but the south-western and extreme northern parts of Europe. Lowest, 29·5 ins. and less in a depression over the north of Scandinavia; 30·0 ins. and less in a shallow system over the Bay of Biscay. Former depression subsequently moving eastwards; latter disturbance partially filling up.

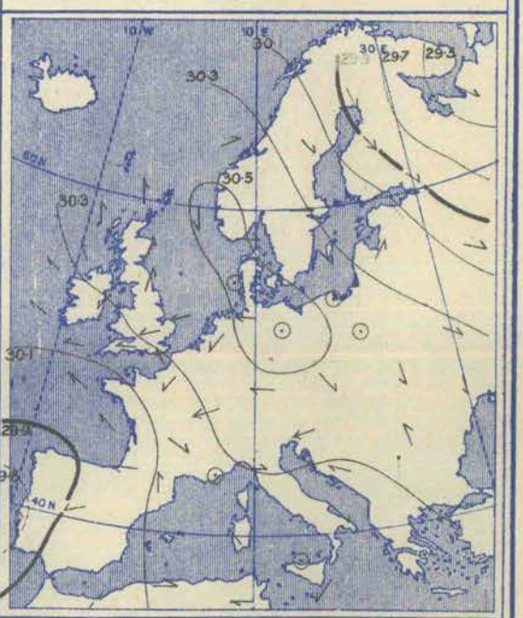
Monday, 1st November.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather fair over western Europe as a whole, but foggy in many parts of Great Britain, and also in the south of Norway. Dull over the central parts of the Continent, with fog in many places; fine over Sweden and northern Russia, as well as in France and Italy; dull over the Spanish Peninsula, with rain at Madrid. Fog clearing later in many parts of England; heavy rain falling during day at Madrid, and also at Bodö.

Temperature fallen in France and Italy, and also in Russia and the south of Sweden; changed irregularly elsewhere. Morning readings highest, 73° at Algiers, 66° at Oran, 64° at La Calle, and 63° at Malta; above 55° at most of the Mediterranean and Spanish coast stations, as well as in the western parts of the English Channel. Lowest, (1) 31° at Brussels, Belfort, Munich, and Kiev, 32° at Lemberg, and 33° at Breslau; (2) 30° at Karlstad; (3) 37° at Cambridge, and 41° at Oxford. Rising later to between 55° and 60° at most of our own western and southern stations; exceeding 60° over the Bay of Biscay and southern Europe generally, and exceeding 70° at some of the Mediterranean stations. Frost occurring over central Scotland at night.

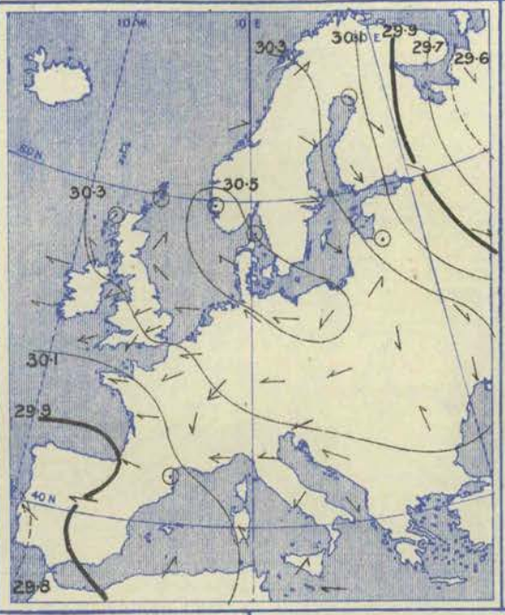
Wind light to moderate from the Eastward or North-Eastward over the south of England, and also over the Netherlands, western Germany, France, and northern Italy; South-Easterly in Ireland, and also over the Spanish Peninsula; Southerly in the north-east of Scotland. Strong from the Westward or South-Westward over the northern parts of Scandinavia, with a gale at Bodö; light to fresh from the North-Westward over Russia and the south of Scandinavia. Variable over southern Italy and the Mediterranean. No important change occurring later.

Barometer highest, 30·51 ins. at Skudesnaes; 30·50 ins. at Skagen, Cuxhaven, and Berlin; 30·2 ins. and upwards in an anticyclone embracing all but the south-western and extreme northern parts of Europe. Lowest, 29·5 ins. and less in a depression passing eastwards across the extreme north of Russia; 29·8 ins. and less in a shallow disturbance off the Portuguese coasts. Latter disturbance subsequently spreading slowly northwards, and barometer falling a little in most parts of western Europe.

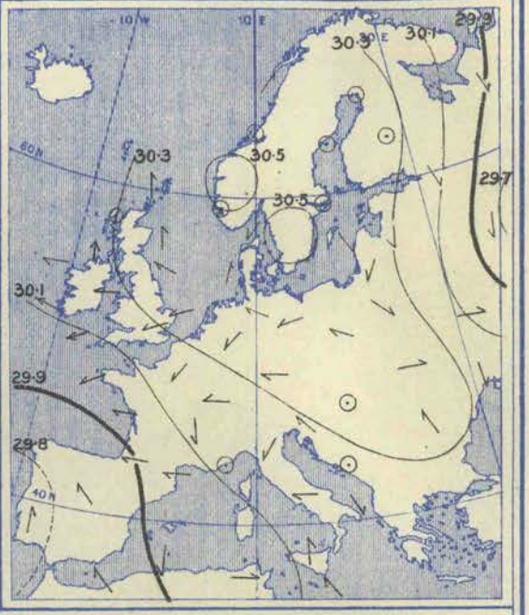
Tuesday, 2nd November.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over western and northern Europe generally, as well as over Italy and the Adriatic, but dull at several of our own northern and eastern stations, as well as in Norway and Denmark, with rain at Bodö. Dull over Germany, Austria, and the south of Russia, as well as over the Spanish Peninsula; foggy over central France. Heavy rain falling later at some of the Spanish and southern French stations.

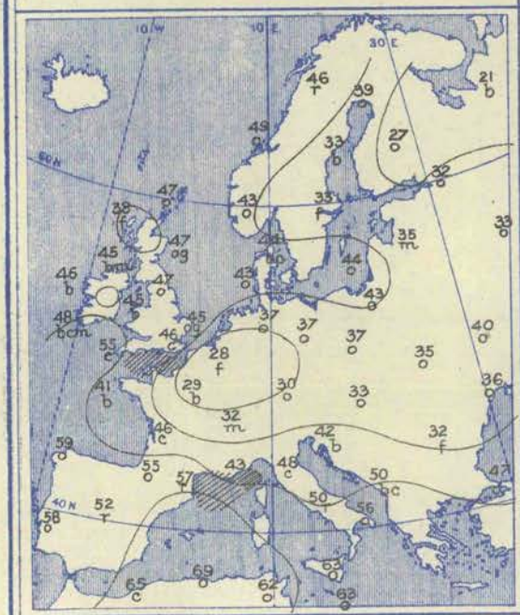
Temperature fallen in most countries, but risen a little in Germany and Italy. Morning readings highest, 69° at Nemours, 68° at Algiers, and 64° at Bilbao, Oran, and Cagliari; above 55° at the Mediterranean, Adriatic, and Spanish coast stations generally. Lowest, (1) 30° at Brussels and Belfort, and 32° at Cape Gris Nez, Paris, Lyons, and Munich; (2) 30° at Kiev and Kharkov; (3) 31° at Karlstad, and 32° at Stockholm; (4) 36° at Nairn. Daily maxima below 50° on several parts of our own northern, eastern, and south-eastern coasts, and below 55° in most other parts of the Kingdom, but thermometer reaching 58° at Stornoway, Belmullet, and Valencia (Ireland). Exceeding 60° over the Bay of Biscay and southern Europe generally and exceeding 70° at some of the Mediterranean stations.

Wind Easterly or North-Easterly over the greater part of central and southern Europe, and also over all the more southern parts of our Islands; light or moderate in force generally, but strong over the western half of the English Channel as well as at Belfort. Light from the Southward or South-Eastward over the northern parts of our Islands; moderate to strong from the South-Westward in the west of Norway, and from the North-Westward or Northward over Sweden and Russia. Variable at the Mediterranean stations. No important change occurring during day.

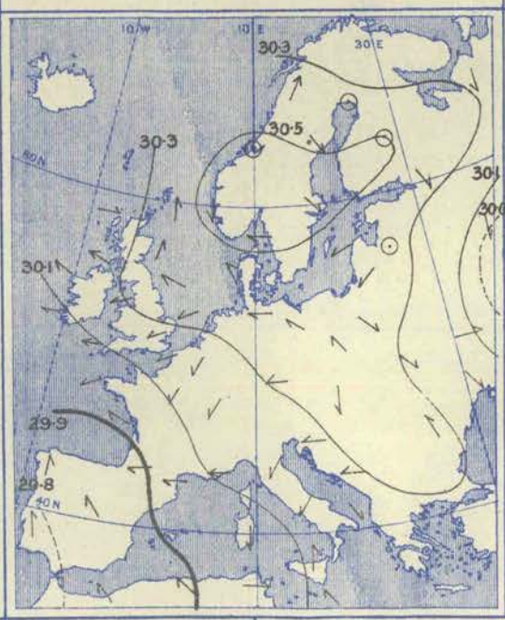
Barometer highest, 30·5 ins. and upwards over Denmark, the extreme south of Norway and the northern and eastern parts of Germany, 30·2 ins. and upwards in an anticyclone embracing all but the north-eastern and south-eastern portions of Europe. Lowest, 29·6 ins. and less in a depression over northern Russia, 29·8 ins. and less in a shallow disturbance off the Portuguese coasts. No decided change occurring later, but barometer falling slowly over western Europe generally.

Wednesday, 3rd November.

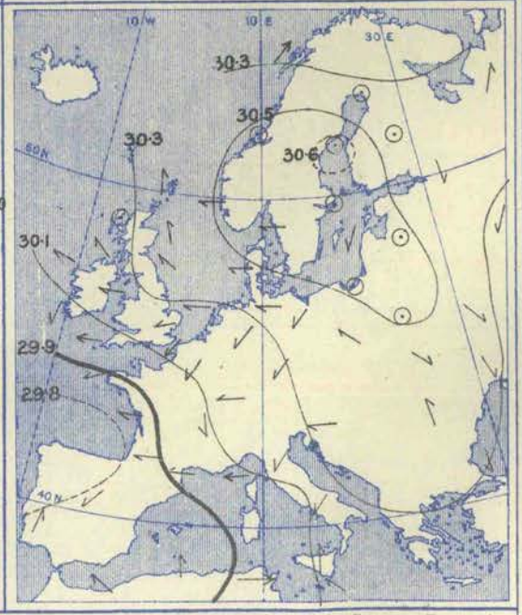
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over north-western Europe generally, but dull in the central and north-eastern parts of Great Britain, as well as in the west of Norway, with rain at Bodö; foggy at many of the Scotch stations. Dull in most of the central, eastern, and southern countries, with fog in several places, and rain at Perpignan, Madrid, and Rome. No important change occurring over western Europe during day, but heavy rain falling in Spain, northern Italy, and the south of France—as much as 2·0 ins. at Barcelona and Rome.

Temperature fallen in most of the western and central countries, as well as over northern and central Russia, changed irregularly elsewhere. Morning readings highest, 69° at Algiers, 68° at Sfax, 65° at Nemours, and 63° at Palermo, Malta, and La Calle; above 55° at most of the Mediterranean and Spanish coast stations. Lowest, (1) 21° at Archangel, 27° at Kuopio, and 29° at Helsingfors; (2) 28° at Cape Gris Nez, Brussels, and Wiesbaden, and 29° at Paris; (3) 35° at Nairn. Daily maxima below 50° at several of our own northern, central, and eastern stations, but thermometer exceeding 55° on our extreme western coasts; exceeding 60° over the Bay of Biscay and southern Europe generally, and reaching 75° at Palermo.

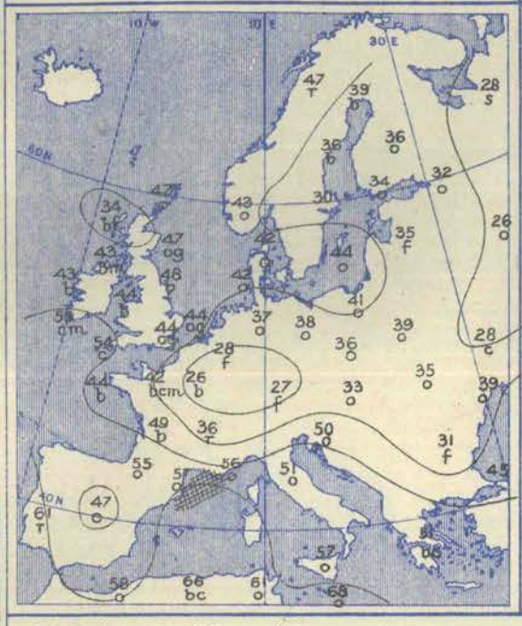
Wind Easterly over the greater part of our Islands, France, northern Italy, Germany, Denmark, and the Netherlands; light or moderate in force generally, but strong in the western parts of the English Channel. Light from the Southward in the north-east of Scotland; calm or variable over the northern parts of Scandinavia, and also over the greater part of Russia; variable over southern Italy; South-Easterly over the Spanish Peninsula. No important change occurring over western Europe during day.

Barometer highest, 30·5 ins. and upwards over the central and southern parts of Scandinavia; 30·2 ins. and more in an anticyclone covering the whole of northern and central Europe, and extending westward over all the more northern and eastern parts of the United Kingdom. Lowest, 29·8 ins. and less in a shallow depression over the south-western parts of the Spanish Peninsula; 30·0 ins. and less in another shallow system over central Russia. No important change occurring during day.

Thursday, 4th November.

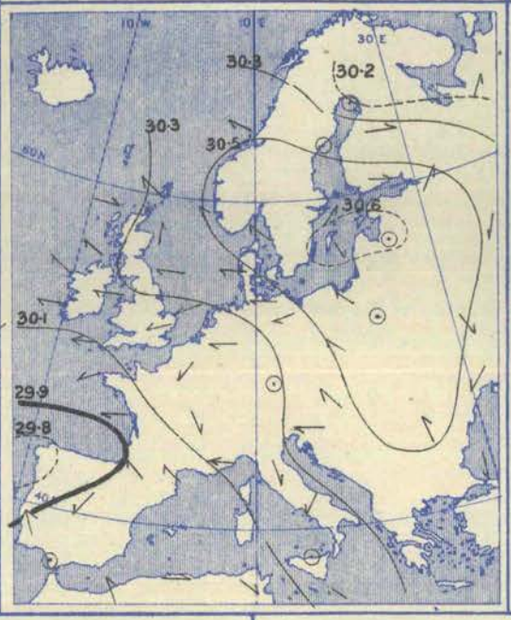
Temperature and Weather.

8 a.m.

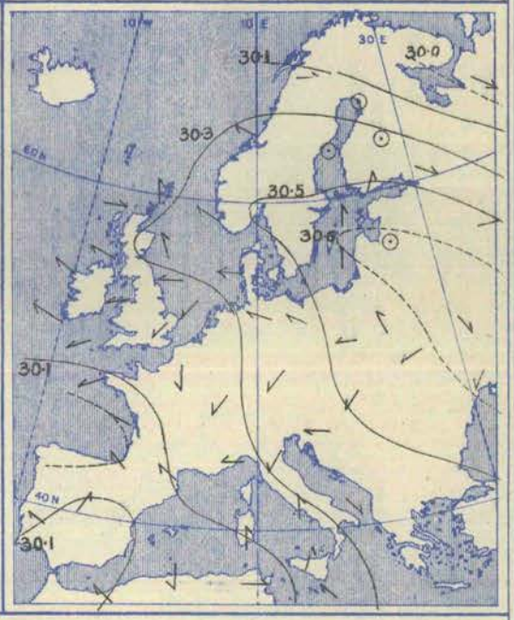


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull over all the more eastern and central parts of Great Britain, and also over the greater part of the Continent, with mist or fog in many places, and rain at Bodö, as well as at Lyons and Lisbon. Fine on our own western coasts, as well as in Sweden and western Germany. Rain falling later at several stations in the east and south of France—heavily at Cette; no important change occurring elsewhere.

Temperature changed little and irregularly. Morning readings highest, 68° at Malta, 66° at Algiers, 63° at Barcelona, and 61° at Lisbon and La Calle; above 55° at the Mediterranean and Spanish coast stations generally. Lowest, (1) 26° at Paris and Moscow, and 27° at Munich; (2) 30° at Nairn, and 34° at Stornoway. Daily maxima below 50° in most parts of Great Britain, and as low as 45° in the south-east of England, but thermometer reaching 55° at Stornoway, as well as at Valencia (Ireland) and Scilly. Exceeding 60° in the west and south of France, and exceeding 70° in some parts of Spain and southern Italy, the highest reading of all being 75° at Palermo.

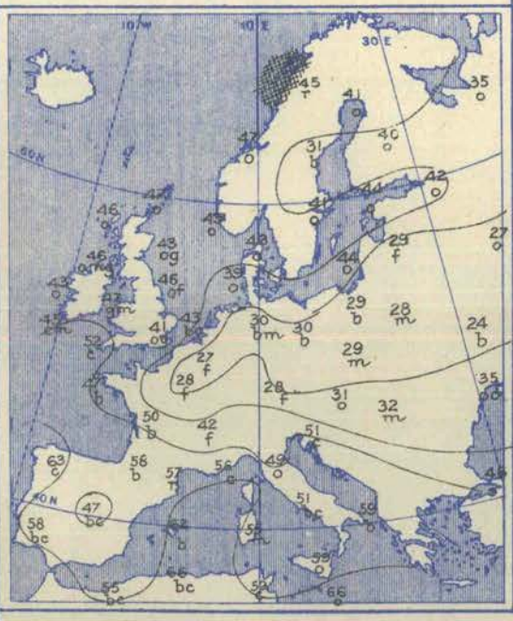
Wind light to fresh from the Eastward (North-East to South-East) over the greater part of our Islands, and also over the western and central parts of the Continent, but Southerly in the north-east of Scotland, and South-Easterly in the west of Norway. Calm in the north of Sweden; light from the Westward or South-Westward over northern Russia, and from the North-Westward or Northward in the south of that country; variable over southern Italy. No decided change occurring over western Europe during day.

Barometer highest, 30·6 ins. and upwards over the northern parts of the Baltic; 30·2 ins. and upwards in an anticyclone embracing all but the south-western and extreme northern parts of Europe. Lowest, 29·8 ins. and less in a depression lying off the Portuguese coasts. Depression filling up gradually during day and barometer rising in most parts of western Europe

Friday, 5th November.

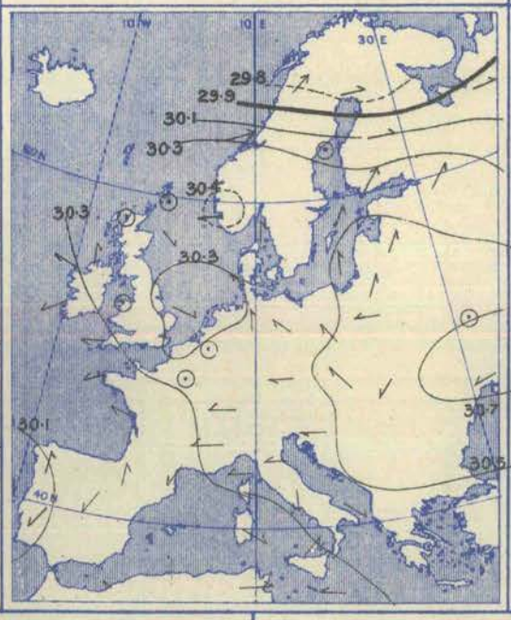
Temperature and Weather.

8 a.m.

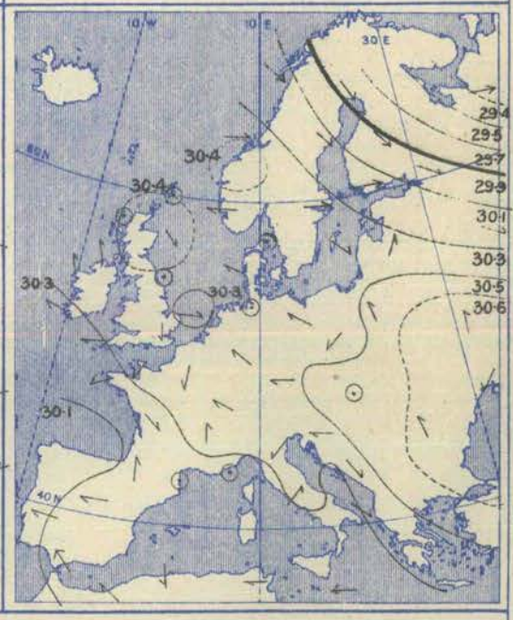


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy over our Islands and a considerable portion of the Continent, with mist or fog in many places and rain at Bodö, as well as in the extreme south of France. Fine over the northern parts of Sweden and Germany, and also over the Spanish Peninsula, the west of France, and the south of Italy. No important change occurring over western Europe during day. Heavy rain falling at Cette.

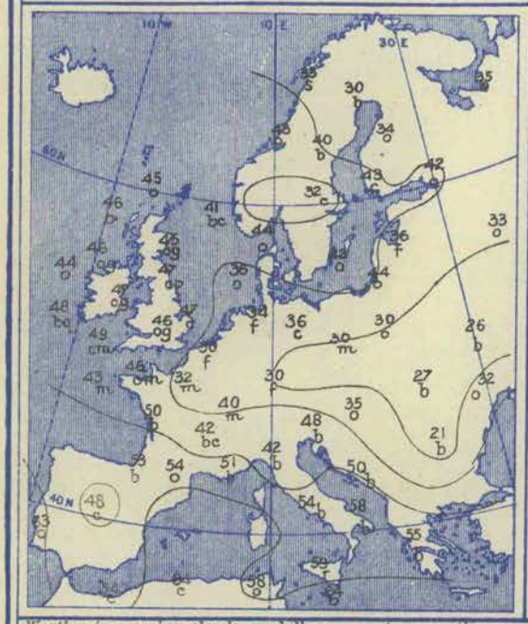
Temperature changed irregularly in the western countries, fallen in the central and southern parts of the Continent. Morning readings highest, 66° at Malta and Algiers, 64° at Sfax, 63° at San Fernando, and 62° at Palma, above 55° at the Mediterranean and Spanish coast stations generally. Lowest, 23° at Kharkov, 24° at Kiev, 26° at Nicolaieff, 27° at Brussels, and 28° at Paris and Warsaw, below the freezing point over the whole of central and eastern Europe. Daily maxima over our Islands below 50° on all but our south-western and extreme northern coasts, thermometer exceeding 65° in many parts of southern Europe, and reaching 73° at San Fernando and Palermo.

Wind light from the Northward or North-Eastward over the greater part of England, from the Eastward over western Germany, France, Spain, and northern Italy, and from the South-Eastward in Ireland. Calm in the west and north of Scotland. Westerly or South-Westerly in Scandinavia and northern Russia, with a gale at Bodö. Calm or North-Easterly in the south of Russia. Variable over northern Italy and the Mediterranean. No important change occurring over western Europe during day, but wind veering to the North-Westward over Finland and the north of Scandinavia; Westerly gale springing up at Archangel.

Barometer highest, 30·7 ins. and upwards over the south of Russia; 30·2 ins. and upwards in an anticyclone covering all but the northern and extreme south-western parts of Europe. Lowest, 29·8 ins. and less in a depression moving eastwards across the north of Scandinavia. No decided change occurring later, but depression in far north continuing to travel eastwards.

Saturday, 6th November.

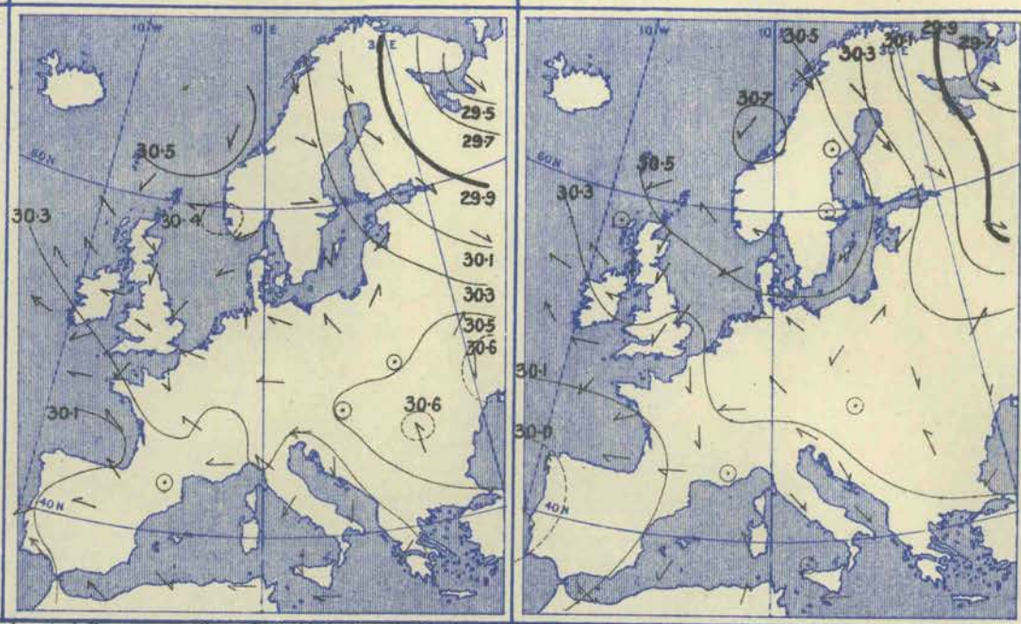
Temperature and Weather. 8 a.m.



Weather in morning cloudy or dull over western, northern, and central Europe generally, with mist or fog in many places, and snow at Bodö. Fine over the northern parts of Sweden and also over southern Europe generally, but cloudy at several of the Spanish stations; rain falling at Palermo. A little rain falling later in the eastern parts of Great Britain; no important change occurring elsewhere.

Temperature risen in our Islands and also over the Netherlands, Germany, and the east of France, fallen in most other localities. Morning readings highest, 64° at San Fernando, Algiers, and Malta, and 63° at Lisbon and Sfax; above 55° at several of the Mediterranean and Spanish coast stations. Lowest, 21° at Hermanstadt, 23° at Kharkov, 24° at Nicolaieff and 26° at Kiev; below the freezing point in many parts of eastern and central Europe, and also in the north of Sweden. Rising during day to 50° or slightly above it at many of the English and Irish stations and also in the Hebrides, but remaining below 50° in the northern parts of the United Kingdom generally—exceeding 60° in the west and south of France, and exceeding 70° at some of the Spanish and Mediterranean stations.

Barometer and Wind. 8 a.m. 6 p.m.



Wind light from the Northward in the eastern and central parts of Great Britain; moderate to fresh from the Eastward or South-Eastward on the west coasts of our Islands and France, and also over the Spanish Peninsula. Light to fresh from the North-Westward over Scandinavia and northern Russia, calm or variable over Austria and the south of Russia; light from East or South-East in Germany; Northerly in Italy. No decided change occurring over western Europe during day.

Barometer highest, 30·6 ins. and upwards in the south of Russia; 30·5 ins. and upwards in the west of Norway; 30·2 ins. and upwards in an anticyclone covering all but the extreme north-eastern and south-western parts of Europe. Lowest, 29·5 ins. and less in a depression lying over northern Russia; 30·0 ins. and less in a shallow system lying to the south-westward of the Spanish Peninsula. Barometer rising briskly in Scandinavia during day, but falling in most parts of our Islands and France.

GENERAL NOTES.

Anticyclonic conditions were again prevalent this week over all but the south-western and extreme northern parts of Europe. In the former locality the weather was influenced by a shallow depression which advanced from the south-westward in the early part of the week, but which appears to have filled up on reaching the southern parts of the Bay of Biscay, its only effect upon the weather in these islands being to occasion a considerable freshening of the wind from East over the English Channel. In Spain and the south of France, however, as well as in the isolated parts of northern Italy, heavy falls of rain occurred, the daily amounts being, in some cases, as much as 2 ins. In the extreme north of Europe the conditions were affected at the beginning and also towards the close of the week by depressions of considerable depth, which passed across the north of Scandinavia, and thence on to the White Sea and Siberia. These occasioned strong winds or gales from the Westward (South-West to North-West) in the regions affected, with considerable falls of rain in places.

Over the United Kingdom, and, in fact, over western and central Europe as a whole, anticyclonic conditions reigned supreme, the wind being mostly light from the Eastward, and the weather dry, though with a good deal of fog or mist in places. During the early part of the week the sky was partially clear in the west and south of our Islands, but overcast in the north and east. Later on, however, dull weather became general, and at the close of the week showers of drizzling rain were falling on the east coasts of Great Britain.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 260.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	12·4	- 4·6	20	- 4	EASTBOURNE	25·9	+ 5·4	39	+10
OSWALDKIRK (Yorkshire)	8·4	- 6·6	13	-10	VENTNOR	22·9	?	35	?
WORKSOP	3·8	-11·4	6	-16	SOUTHPORT	19·7	?	31	?
THURCASTON (Leicestershire)	3·9	-12·9	6	-19	COLWYN BAY	30·5*	?	48*	?
MARGATE	23·6	+ 3·6	36	+ 7	TENBY	27·5*	+ 7·5	42*	+13
WESTBOURNE (Sussex)	28·6*	+ 8·6	43*	+14	NEWQUAY	23·5	+ 1·5	36	+ 4
BRIGHTON	31·9	+ 8·9	48	+14	TORQUAY	10·7*	- 9·3	16*	-13
					GUERNSEY	27·3*	+ 6·8	41*	+11

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder, and at Colwyn Bay also the record is, temporarily, that of a Jordan's Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit, Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending July 10th, 1897	Harrogate	69	43	64·9	48·4	56·1	- 2·3	99	0	2	0·03	?	46·9	?	40	?
" " " " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	47·0	- 4·8	42	- 3
" " " 17th, "	Harrogate	76	43	70·0	47·7	58·1	- 0·5	113	0	0	—	?	78·8	?	69	?
" " " " "	Churchstoke	83	41	75·9	47·3	60·6	+ 2·7	130	0	0	—	-0·57	84·7	+45·2	75	+40
" " " 24th "	Edgeworthstown	75	40	71·8	56·9	63·9	+ 6·6	153	0	5	1·25	+0·33	—	—	—	—
" " Aug. 7th, "	Blackpool	84	50	78·0	56·2	66·5	+ 6·9	172	0	2	0·43	-0·41	63·2	+26·4	59	+25
" " " 21st, "	Churchstoke	70	47	65·8	52·1	58·5	+ 1·1	116	0	6	0·75	+0·15	42·7	+ 6·7	43	+ 7
" " " " "	Hereford	71	51	67·3	54·6	60·6	+ 1·0	130	0	—	—	—	—	—	—	—
" " " " "	Laudale	64	44	62·5	50·1	55·9	- 0·8	97	0	7	1·65	+0·43	—	—	—	—
" " " 28th, "	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	46·8	?	46	?
" " Sept. 4th, "	Thurcaston	—	—	—	—	—	—	—	—	—	—	—	33·5	- 0·9	36	0
" " " " "	Torquay	—	—	—	—	—	—	—	—	—	—	—	41·8	- 2·2	45	- 1
" " " 14th, "	Newquay	—	—	—	—	—	—	—	—	—	—	—	33·0	- 9·2	37	- 6

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WEEKLY WEATHER REPORT.

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VOL. XIV No. 45.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 13TH, 1897. [*Price 6d.* *Annual Subscription, post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 266.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	58	37	52·5	44·5	48·6	7 above	46	+24	0	−14	2105	+210	652	− 27
	1. SCOTLAND, EAST	60	36	52·9	44·7	48·8	8 above	48	+24	0	−17	2318	+ 38	703	− 13
	2. ENGLAND, N.E.	60	35	52·4	44·6	48·5	5 above	46	+18	0	−10	2572	+100	477	−103
	3. ENGLAND, EAST	60	29	52·9	42·0	47·5	4 above	39	+ 5	0	−12	2999	+140	509	−146
	4. MIDLAND COUNTIES	61	31	53·2	43·2	48·2	5 above	43	+12	0	−14	2913	+ 82	522	−149
	5. ENGLAND, SOUTH	61	33	54·7	44·9	49·8	5 above	55	+16	0	− 7	3375	+264	297	−205
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	60	38	54·0	47·5	50·7	8 above	61	+32	0	−11	2532	+126	451	− 51
	7. ENGLAND, N.W.	63	39	54·6	47·2	50·9	6 above	62	+30	0	− 7	2820	+184	367	−116
	8. ENGLAND, S.W.	60	32	56·4	47·5	52·0	6 above	70	+27	0	− 4	3204	+281	223	−152
	9. IRELAND, NORTH	60	40	55·4	46·3	50·9	7 above	62	+31	0	− 9	2614	+ 79	404	− 19
	10. IRELAND, SOUTH	61	40	57·2	48·8	53·1	7 above	78	+37	0	− 7	3099	+222	242	− 83
	—CHANNEL ISLANDS	61	43	58·8	50·5	54·7	5 above	89	+28	0	0	3757	+399	68	− 80

Rainfall.

	DISTRICTS. (See p. 266.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	13	1 more	194	−14	36·2	− 5·2
	1. SCOTLAND, EAST	5	7	1 less	175	+ 5	24·9	− 2·4
	2. ENGLAND, N.E.	4	3	4 less	155	− 4	20·4	− 2·2
	3. ENGLAND, EAST	3	2	5 less	149	− 7	19·9	− 2·6
	4. MIDLAND COUNTIES	4	4	3 less	148	− 4	22·9	− 1·5
	5. ENGLAND, SOUTH	3	2	5 less	140	− 8	22·0	− 3·0
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	6	22	9 more	187	+10	37·8	− 3·3
	7. ENGLAND, N.W.	4	10	1 more	170	+ 5	28·5	− 1·4
	8. ENGLAND, S.W.	5	11	1 more	177	+ 9	35·7	+ 2·6
	9. IRELAND, NORTH	6	10	0 (average)	200	+ 8	34·1	+ 2·1
	10. IRELAND, SOUTH	6	25	16 more	189	+15	39·0	+ 6·0
	— CHANNEL ISLANDS	4	8	2 less	188	+11	30·1	+ 2·2

Bright Sunshine.

	DISTRICTS. (See p. 266.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	4	− 7	6	−11	1209	+188	30	+ 5
	1. SCOTLAND, EAST	4	−10	6	−17	1297	+ 82	32	+ 2
	2. ENGLAND, N.E.	1	−14	1	−21	1379	+154	34	+ 4
	3. ENGLAND, EAST	1	−16	2	−25	1529	+ 80	38	+ 2
	4. MIDLAND COUNTIES	2	−14	3	−21	1443	+135	36	+ 3
	5. ENGLAND, SOUTH	6	−11	10	−16	1600	+ 78	40	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	3	−11	6	−18	1347	+ 25	32	0
	7. ENGLAND, N.W.	5	− 9	8	−13	1452	+127	35	+ 3
	8. ENGLAND, S.W.	5	−13	9	−18	1553	− 11	39	0
	9. IRELAND, NORTH	9	− 7	15	−11	1219	+ 28	30	0
	10. IRELAND, SOUTH	14	− 4	22	− 6	1342	− 13	33	− 1
	— CHANNEL ISLANDS	14	− 3	21	− 2	1635	−122	42	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period became very unsettled, with frequent and heavy rain in all the western and north-western districts. In the east and south-east, however, the conditions were comparatively dry, although slight rain occurred during the early days of the week. Fog was experienced from time to time over England, and much cloud prevailed.

Temperature was much above the mean, the excess ranging from 4° in England E., to 6° or 7° in the western districts and in Scotland N., and to 8° in Scotland E. and W. The highest of the maxima were recorded during the latter half of the week, and varied from 63° in England N.W., and 61° or 60° in most other districts, to 58° in Scotland N. The minima were, as a rule, very high for the time of year, but were relatively low in many places, both at the commencement and towards the end of the period. The absolute minima ranged from 29° in England E., 31° in the Midland Counties, and 32° in England S.W., to 40° over Ireland, and to 43° in the Channel Islands.

Rainfall was again less than the mean in all the "Wheat producing" districts and in the Channel Islands. In the western and extreme northern parts of the Kingdom, however, there was an excess, that in Scotland W. and in Ireland S. being very large.

Bright Sunshine was much below the normal, especially over Great Britain. The percentage of the possible duration ranged from 22 in Ireland S., and 21 in the Channel Islands, to 6 over Scotland, to 2 in England E., and to 1 in England N.E.

Barometer and Wind.—Soon after the commencement of the period the anticyclone which had prevailed over Scandinavia began to move slowly south-eastward, and depressions, moving northwards, skirted our extreme western and north-western coasts. As the week progressed the disturbances spread more over us, and the Southerly and South-Westerly winds, increasing in strength, reached the force of a gale in the west and north on Friday. At the end of the period a decided rise of the barometer had set in at the extreme north-western and northern stations, and the wind in those regions had shifted suddenly to the eastward.

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II.—DATA from which the SUMMARY on page 265 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	52	43	50 7	45·4	48·1	+ 5·5	43	0	4	0·93	- 0·07	*	*	*	*
	Stornoway	54	37	52·3	42·0	47·2	+ 4·9	36	0	6	1·59	+ 0·47	8·1	- 5·5	14	- 9
	Wick	52	43	51·3	45·4	48·4	+ 6·5	45	0	6	0·59	- 0·14	*	*	*	*
	Lairg Ⓢ	58	41	57·7	42·5	47·1	+ 6·6	36	0	5	0·83	0·00	*	*	*	*
	Glencarron Ⓢ	57	39	53·1	44·8	49·0	+ 8·0	49	0	5	2·52	+ 0·28	*	*	*	*
	Fort Augustus Ⓢ	56	38	54·2	44·2	49·2	+ 6·8	50	0	5	0·45	- 0·54	2·5	- 4·5	4	- 7
	Fort William Ⓢ	58	42	54·5	47·2	50·9	+ 7·9	62	0	5	2·45	+ 0·66	0·6	-10·2	1	-16
1. SCOTLAND, E.	Nairn	60	36	55·9	39·7	47·8	+ 6·6	50	6	3	0·44	- 0·05	*	*	*	*
	Aberdeen	57	43	53·0	47·3	50·2	+ 8·2	57	0	6	0·36	- 0·34	3·8	-13·3	7	-21
	Braemar Ⓢ	55	40	51·1	43·6	47·4	+ 8·9	38	0	5	0·96	+ 0·05	4·8†	- 3·7†	8†	- 6†
	Ochtertyre Ⓢ	55	40	51·7	46·1	48·9	+ 7·4	48	0	7	1·39	+ 0·38	*	*	*	*
	Leith	60	42	54·7	46·7	50·7	+ 7·6	61	0	4	0·42	- 0·03	*	*	*	*
	Marchmont Ⓢ	56	38	50·9	44·6	47·8	+ 6·8	41	0	5	0·49	- 0·29	2·0	-13·0	3	-22
2. ENGLAND, N.E.	Alnwick Castle	58	37	51·6	45·2	48·4	+ 5·9	45	0	4	0·21	- 0·50	*	*	*	*
	Durham	58	35	52·4	43·9	48·2	+ 6·4	43	0	3	0·23	- 0·44	1·2	-13·8	2	-21
	Shields	60	39	53·3	45·4	49·4	+ 5·8	52	0	3	0·20	- 0·37	*	*	*	*
	Scarborough Ⓜ	58	36	52·2	44·5	48·4	+ 4·5	45	0	6	0·31	- 0·39	1·1	?	2	?
	York	60	36	53·4	43·1	48·3	+ 5·5	44	0	6	0·47	- 0·08	0·0	-13·2	0	-21
	Spurn Head	56	37	51·6	45·4	48·5	+ 4·0	46	0	4	0·20	- 0·34	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	59	32	52·6	42·3	47·5	+ 4·5	39	0	3	0·15	- 0·46	1·9	-13·6	3	-23
	Yarmouth	57	38	52·6	44·7	48·7	+ 4·5	47	0	2	0·21	- 0·49	*	*	*	*
	Geldeston	58	30	53·1	43·0	48·1	+ 4·1	43	0	1	0·09	- 0·53	2·0	-15·8	3	-22
	Cambridge	60	29	53·7	39·6	46·7	+ 3·4	43	7	2	0·20	- 0·30	0·5	-17·2	1	-26
	Rothamsted	58	29	52·7	40·2	46·5	+ 3·7	39	5	5	0·20	- 0·48	0·3	-17·7	0	-28
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	58	35	53·3	42·0	47·7	+ 5·0	40	0	4	0·18	- 0·33	*	*	*	*
	Loughborough	58	31	53·1	42·0	47·6	+ 3·8	39	0	4	0·17	- 0·39	*	*	*	*
	Stamford (Duddington)	59	31	53·3	41·3	47·3	+ 4·3	40	2	3	0·13	- 0·47	*	*	*	*
	Cheadle Ⓜ	55	37	50·9	43·8	47·4	+ 5·4	38	0	5	0·94	+ 0·18	*	*	*	*
	Shirley (near Solihull)	57	33	52·8	42·9	47·9	+ 5·6	41	0	6	0·40	?	*	*	*	*
	Churchstoke Ⓜ	56	39	53·7	45·8	49·8	+ 7·0	55	0	3	0·62	- 0·20	3·0	-12·4	5	-18
	Hereford Ⓜ	61	37	54·8	45·3	50·1	+ 6·3	57	0	5	0·41	- 0·19	*	*	*	*
	Cirencester	58	34	53·4	43·1	48·3	+ 5·7	44	0	4	0·37	- 0·35	2·5	-15·1	4	-23
	Oxford	59	33	53·7	42·4	48·1	+ 4·3	43	0	3	0·23	- 0·31	2·8	-14·5	5	-20
5. ENGLAND, S.	London	59	33	54·0	42·1	48·1	+ 3·3	43	0	3	0·20	- 0·38	0·4†	-12·6†	1†	-17†
	North Foreland	56	43	53·0	45·6	49·3	+ 4·2	51	0	2	0·15	?	*	*	*	*
	Dungeness	58	38	54·6	45·7	50·2	+ 4·0	57	0	3	0·10	- 0·68	*	*	*	*
	Hastings (St. Leonards)	59	38	54·5	45·7	50·1	+ 4·3	57	0	3	0·24	- 0·58	8·3	-11·2	13	-18
	Southampton	61	35	55·3	45·3	50·3	+ 4·9	58	0	4	0·24	- 0·51	5·4	-12·7	9	-19
	Hurst Castle	58	39	56·3	46·7	51·5	+ 4·9	67	0	4	0·24	- 0·53	*	*	*	*
	Shaftesbury Ⓜ	59	38	55·2	43·4	49·3	+ 6·4	51	0	4	0·35	- 0·50	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	45	56·5	49·2	52·9	+ 9·1	76	0	6	1·42	- 0·53	*	*	*	*
	Glasgow	56	44	53·3	47·4	50·4	+ 7·7	59	0	4	1·18	+ 0·30	1·0	- 9·2	2	-14
	Ardrossan	55	42	53·1	46·9	50·0	+ 5·8	56	0	5	0·91	+ 0·01	*	*	*	*
	Glenlee Ⓢ	57	38	52·8	45·2	49·0	+ 7·2	49	0	7	2·79	+ 1·34	*	*	*	*
	Gilcrux (Cumberland)	57	40	53 9	46·2	50·1	+ 7·9	57	0	6	4·12	?	5·4	?	9	?
	Douglas (Isle of Man)	56	46	54·1	49·8	52·0	+ 7·2	70	0	6	2·69	+ 1·59	3·9	-13·1	6	-21
7. ENGLAND, N.W.	Stonyhurst	56	43	52·1	47·1	49·6	+ 6·7	53	0	5	0·85	- 0·25	1·0	-11·8	2	-18
	Blackpool Ⓜ	?	?	?	?	?	?	?	?	5	1·66	+ 0·85	0·8	-12·3	1	-19
	Manchester (Prestwich)	61	39	53·7	45·7	49·7	+ 6·7	54	0	5	1·52	+ 0·70	0·9	?	1	?
	Liverpool Obsy. (Bidston)	58	43	53·6	47·3	50·5	+ 5·9	60	0	5	0·49	- 0·19	*	*	*	*
	Llandudno Ⓜ	63	43	57·7	47·9	52·8	+ 6·8	76	0	3	0·24	- 0·61	11·4	- 2·6	19	- 2
	Holyhead	61	42	56·0	48·1	52·1	+ 5·3	71	0	4	2·03	+ 1·05	*	*	*	*
8. ENGLAND, S.W.	Llandovery	60	32	57·0	44·3	50·7	+ 6·9	61	0	4	1·87	+ 0·63	*	*	*	*
	Pembroke	58	42	56·1	49·9	53·0	+ 5·3	77	0	5	1·62	+ 0·67	6·0	-11·0	10	-16
	Clifton	58	41	55·2	46·7	51·0	+ 6·9	63	0	4	0·60	- 0·21	*	*	*	*
	Arlington (N. Devon)	60	36	56·6	43·7	50·2	+ 5·7	57	0	6	0·76	- 0·73	*	*	*	*
	Cullompton Ⓜ	59	35	57·5	45·1	51·3	+ 7·3	65	0	4	0·34	- 0·52	4·2	-11·8	7	-16
	Falmouth	60	49	56·6	53·1	54·9	+ 7·1	90	0	3	2·17	+ 0·89	6·6	-14·0	10	-21
	Plymouth	59	44	56·1	48·8	52·5	+ 5·3	74	0	6	1·08	+ 0·23	5·5	-13·0	9	-16
	Prawle Point	57	45	56·4	48·6	52·5	+ 5·7	74	0	5	0·29	- 0·49	*	*	*	*
9. IRELAND, N.	Malin Head	55	44	54·1	47·9	51·0	+ 6·0	63	0	6	0·27	?	*	*	*	*
	Londonderry	57	42	55·3	46·7	51·0	+ 7·6	63	0	6	0·80	- 0·29	*	*	*	*
	Edenfel (Omagh)	57	40	54·0	45·6	49·8	+ 7·8	55	0	7	0·97	+ 0·15	*	*	*	*
	Belmullet	59	41	56·0	47·3	51·7	+ 5·5	68	0	7	0·65	- 0·71	*	*	*	*
	Markree Castle	60	41	56·2	45·7	51·0	+ 7·8	63	0	7	1·01	+ 0·01	9·1	- 7·5	15	-11
	Armagh	58	40	55·5	45·4	50·5	+ 7·7	60	0	7	0·90	+ 0·20	8·7	- 6·3	14	-11
	Donaghadee	56	47	54·4	49·7	52·1	+ 7·7	71	0	5	1·24	+ 0·46	*	*	*	*
	Edgeworthstown	60	40	58·0	42·4	50·2	+ 7·4	57	0	5	1·76	+ 0·96	*	*	*	*
10. IRELAND, S.	Dublin	61	47	58·0	50·1	54·1	+ 8·6	85	0	5	1·34	+ 0·68	12·5	- 6·5	20	-10
	Parsonstown	60	42	57·9	47·6	52·8	+ 8·8	76	0	7	1·44	+ 0·81	15·0	- 1·4	25	- 2
	Kilkenny	60	40	57·3	47·9	52·6	+ 8·1	74	0	6	2·57	+ 1·85	*	*	*	*
	Roche's Point	58	48	56·6	50·7	53·7	+ 6·4	82	0	6	3·55	+ 2·45	*	*	*	*
	Valencia	59	46	57·4	49·7	53·6	+ 5·6	81	0	6	3·03	+ 1·66	13·9	- 4·6	22	- 6
	Killarney	59	46	57·5	48·8	53·2	+ 7·2	78	0	7	3·15	?	*	*	*	*
	Foynes	? 59	40	? 56·0	47·0	? 51·5	? + 6·5	? 67	0	6	2·15	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	46	57·7	52·0	54·9	+ 4·9	90	0	5	1·02	+ 0·17	6·3	?	10	?
	Jersey	61	43	59·9	48·9	54·4	+ 5·4	87	0	3	0·49	- 0·56	20·7	- 0·6	32	0

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

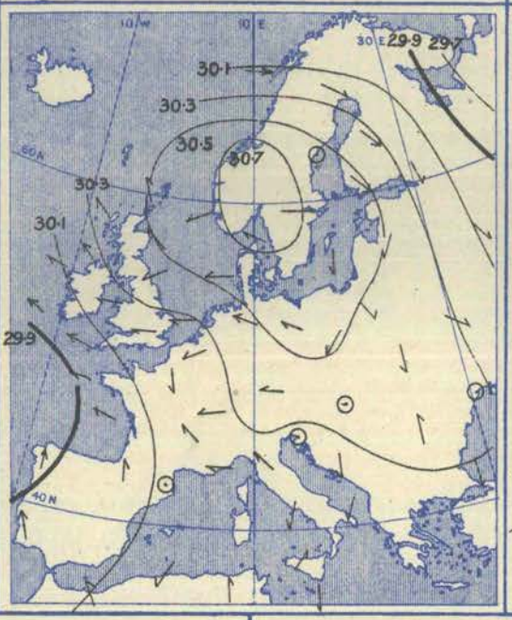
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page

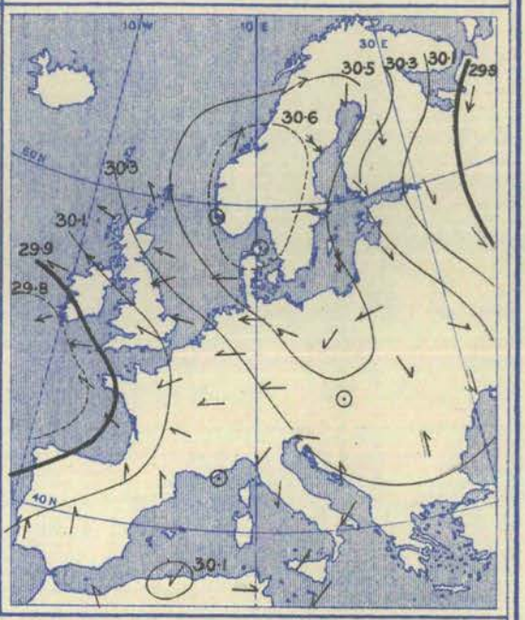
Sunday, 7th November.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over northern and many parts of southern and south-eastern Europe; very cloudy and unsettled over the British Islands and their neighbourhood, dull and foggy over France. Rain falling later in all parts of the British Islands and the west and north of France—the largest amounts being about 0·4 ins. at our south-western stations; small quantities in various parts of Spain.

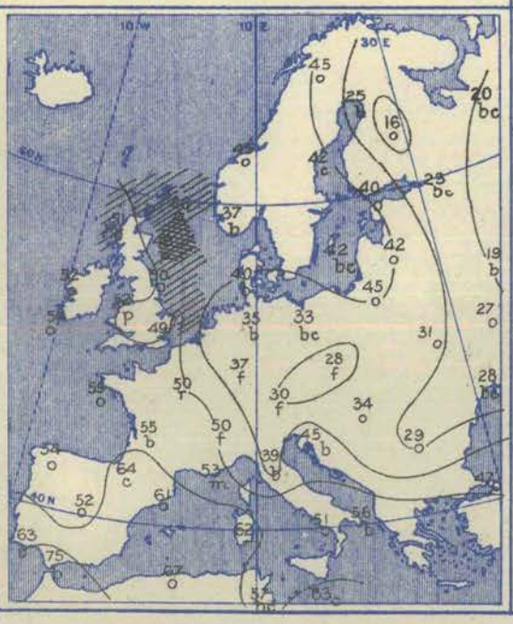
Temperature changing considerably, but fitfully. Morning readings highest, 66° at Algiers, and above 60° on the Spanish and Portuguese coasts generally; 53° at Scilly, 52° at Valencia (Ireland), 49° at Wick, 48° at Yarmouth. Lowest, (1) 23° to 28° over the southern parts of Russia and Hungary; (2) 26° at Helsingfors, 30° at St. Petersburg and Kuopio, 29° at Karistad. Rising during the day to 50° over our north-eastern districts and to between 55° and 57° in the south and south-west of our Islands, but not touching 50° in London, nor exceeding 43° at Berlin.

Wind (1) light and anticyclonic over Scandinavia and central and southern Europe; (2) strong to a gale from North-West over Finland and the north of Russia; (3) becoming strong from East or South-East over the British Islands and freshening from South on the Portuguese coast. Blowing a gale later at several of our northern and western stations, from North-West at Hernösand, and from West-South-West at Bodö.

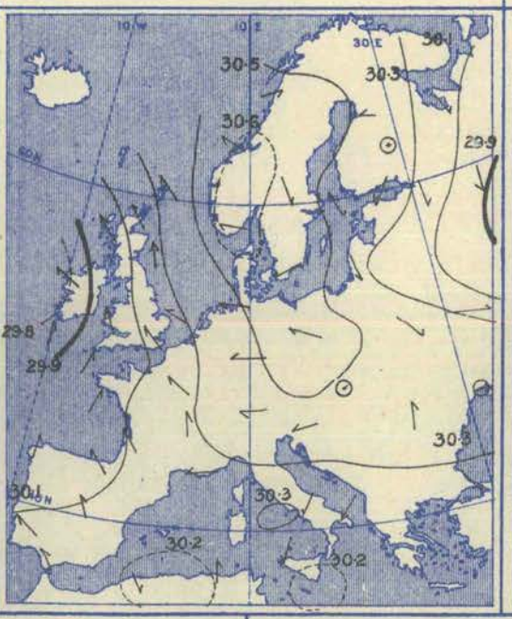
Barometer highest, 30·7 ins. and more over the southern half of Sweden and Norway, and exceeding 30·3 ins. over central and many parts of northern Europe. Lowest, about 29·7 ins. or less over the north-east of Russia, and below 29·9 ins. in a depression lying off our own south-western coasts and the north-west coast of Spain. Falling briskly over our Islands during the day, as the depression in the south-west drew nearer to the south of Ireland; rising over Finland and the north of Russia.

Monday, 8th November.

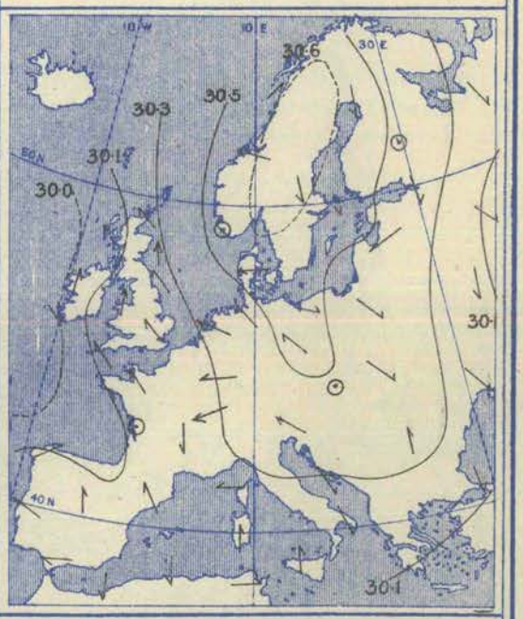
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over Scandinavia, the Baltic, and the Netherlands, as well as over Italy and the Adriatic; very cloudy or overcast in the British Islands and France, with fog or rain at several stations. Rain falling later almost all over the United Kingdom, and half an inch at Corunna; thick mists prevailing in many parts of England.

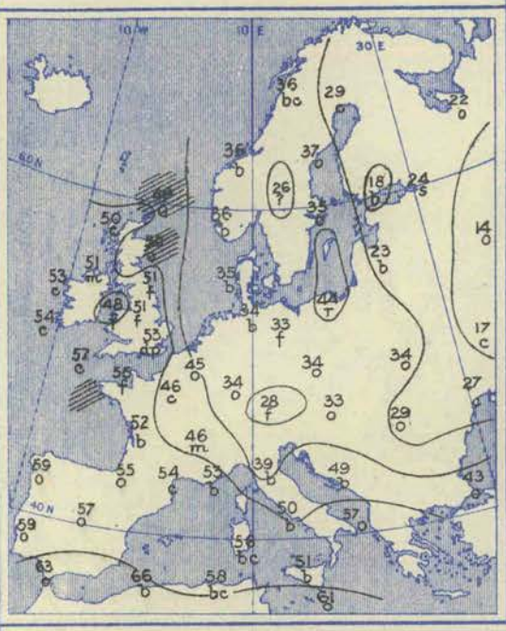
Temperature risen rapidly over France, and considerably over the United Kingdom; fallen rapidly over Finland, Russia, and some parts of north Germany. Morning readings highest, 75° at San Fernando, 69° at Bilbao, 59° at Brest, and 56° to 52° on our own south-western and southern coasts. Lowest, 16° at Kuopio, 19° at Moscow, and below the freezing point over Finland and Russia generally; 24° at Warsaw, 28° at Breslau, 29° at Hermanstadt, 30° at Munich. Rising later to between 58° and 61° at many of our western and south-western stations, to 60° at Paris, 70° at Palermo, and 77° at Biarritz and Algiers. Succeeding night warm over our Islands.

Wind (1) very light and anticyclonic over Denmark, Scandinavia, and central Europe; (2) mainly Northerly and light over Russia; (3) South-Easterly to Southerly over the British Islands and their neighbourhood, and blowing hard on the north-east coasts of Scotland. The last-named gales dying out subsequently, and wind backing towards East again on our south-west coasts.

Barometer highest, 30·6 ins. and more over the southern half of Norway, and exceeding 30·3 ins. over Scandinavia, the Baltic, the North Sea, and central Europe generally. Lowest, below 29·8 ins. off the west coast of Ireland, and below 29·9 ins. over central Russia. Rising later all over the United Kingdom (most in west), but falling in Portugal.

Tuesday, 9th November.

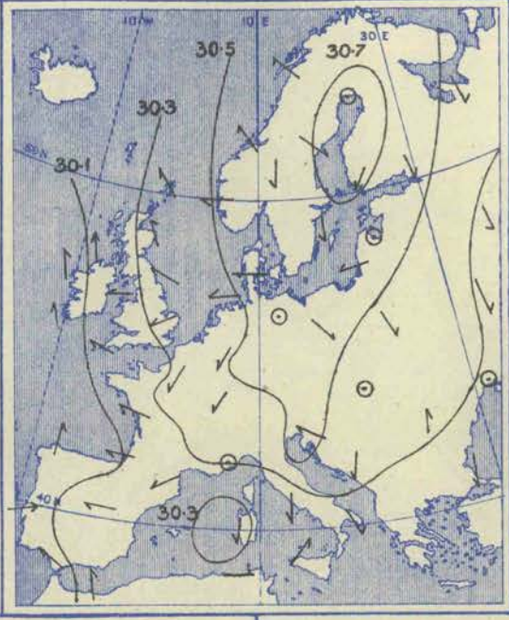
Temperature and Weather. 8 a.m.



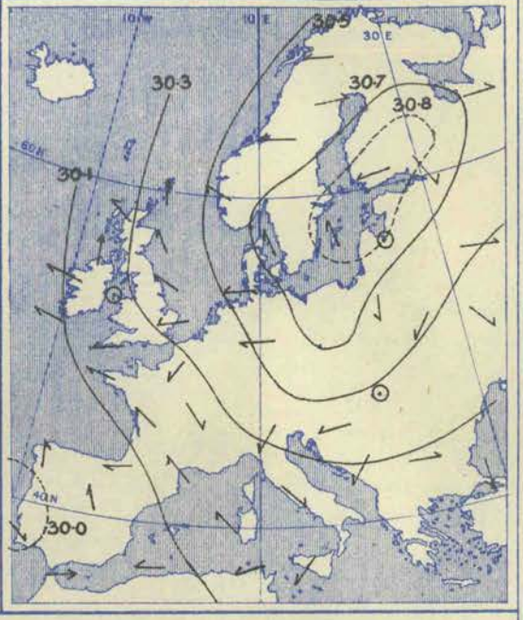
Weather in morning fine and bright over Finland, Scandinavia, and some parts of Germany, as well as over the west of France, the Adriatic, Italy, and the southern shores of the Mediterranean; gloomy and foggy over the British Islands as a whole, with rain in several places; dull over Russia, with snow at St. Petersburg. A little rain falling later at several of our own stations, a considerable quantity in the south of Ireland, and a heavy fall at Valencia during the night. Heavy rain at Nemours also.

Temperature fallen fast over northern Europe, and over some parts of France; risen over England. Morning readings highest, 66° at Algiers and Bilbao, 63° at San Fernando, 57° at Scilly, 56° at Parsonstown, 51° at Wick. Lowest, (1) 11° at Kharkov, 14° at Moscow, 18° at Helsingfors, and much below the freezing point over Russia generally; (2) 26° at Karlstad; (3) 28° at Munich, 30° at Vienna and at Münster. Rising later to 60° and more at several of our western and south-western stations, to 63° at Brest, to 70° at Biarritz and Cagliari, and to 79° at La Calle. Falling over England at night.

Barometer and Wind. 8 a.m.



6 p.m.

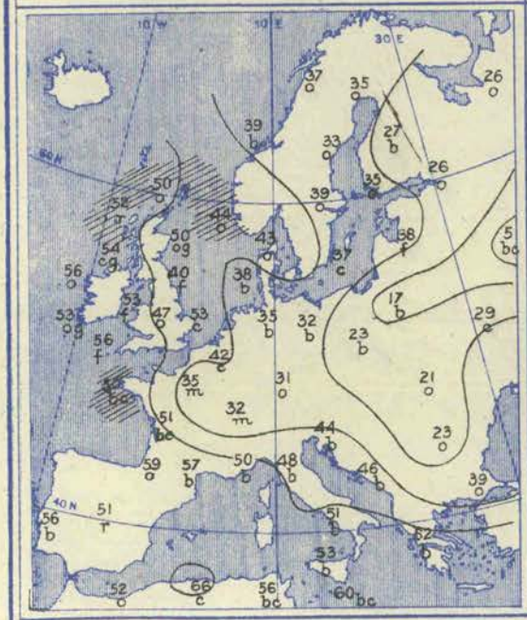


Wind very light and anticyclonic over Continental Europe as a whole; light from between East and South-East over England, more Southerly and moderate in force over Ireland and the east of Scotland—strong at Malin Head. Very little change in direction later, but falling light over Ireland.

Barometer highest, 30·6 ins. and more over Finland and the Gulf of Bothnia, and exceeding 30·4 ins. over Scandinavia, central Europe, and the North Sea. Lowest, below 30·2 ins. over central Russia, and below 30·1 ins. over the western parts both of Ireland and of the Spanish Peninsula. Rising later over Germany, falling over Spain, France, and England.

Wednesday, 10th November.

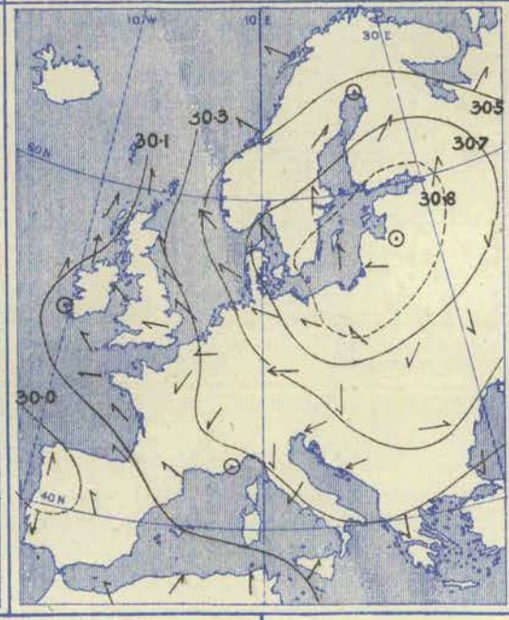
Temperature and Weather. 8 a.m.



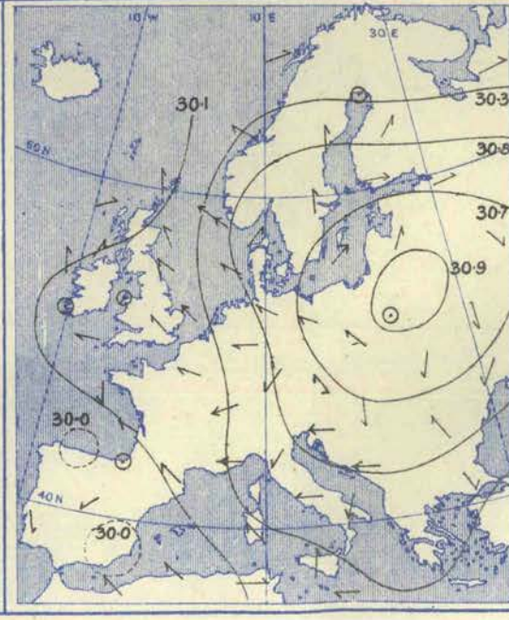
Weather in morning very quiet over nearly the whole of Continental Europe—clear and bright in many places, foggy or dull in others; fair over the British Islands as a whole but foggy and dull in the west, rainy at Stornoway. Some rain falling later at several of the western and extreme northern stations, but no decided change elsewhere.

Temperature fallen fast over Russia and central Europe, and less decidedly at Paris and in many parts of our Islands. Morning readings highest, 66° at Algiers, 63° at Sfax, 59° at Biarritz, 56° at Scilly and Belmullet, 52° at Stornoway. Lowest, 5° Fahr. at Moscow, 8° at Kharkov, 17° at Warsaw; much below the freezing point over Russia and Poland generally; 32° at Berlin, 33° at Wiesbaden and also at Karlstad. Again rising to 60° at Jersey during the day and to 63° at Brest and Biarritz, 72° at Cagliari, and 79° at Tunis, but not exceeding 52° at Paris, or 34° at Berlin. Succeeding night colder over England

Barometer and Wind. 8 a.m.



6 p.m.

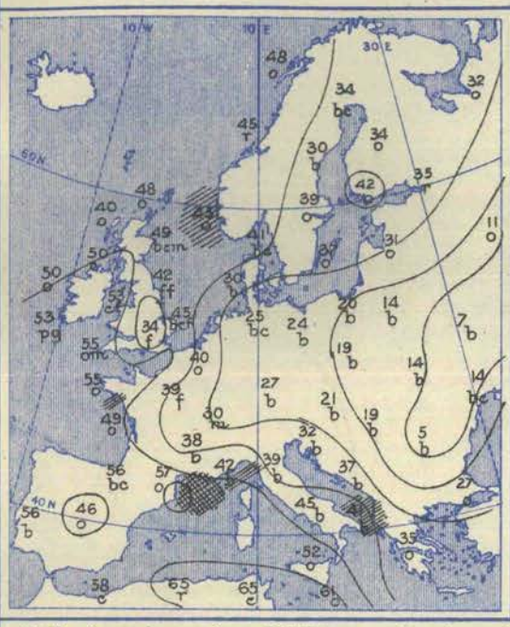


Wind anticyclonic in direction, light to moderate in force over Europe as a whole, as well as over England; Southerly over Ireland and Scotland, South-Easterly over Norway, and blowing very strongly at Skudesnaes.

Barometer highest, 30·8 ins. and more over north Germany, the Baltic, and the Baltic provinces of Russia, and exceeding 30·3 ins. over almost the whole of Continental Europe. Lowest, below 30·1 ins. in the Hebrides, as well as over the Spanish Peninsula and the north of Africa. Falling over the Shetland Islands and Scandinavia later, changing little and irregularly elsewhere.

Thursday. 11th November.

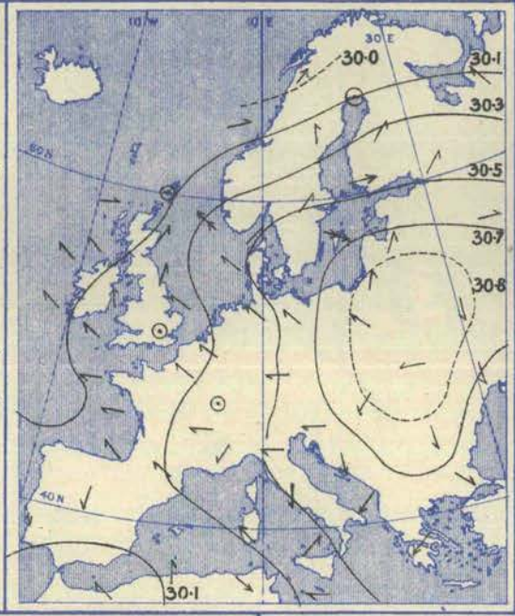
Temperature and Weather. — 8 a.m.

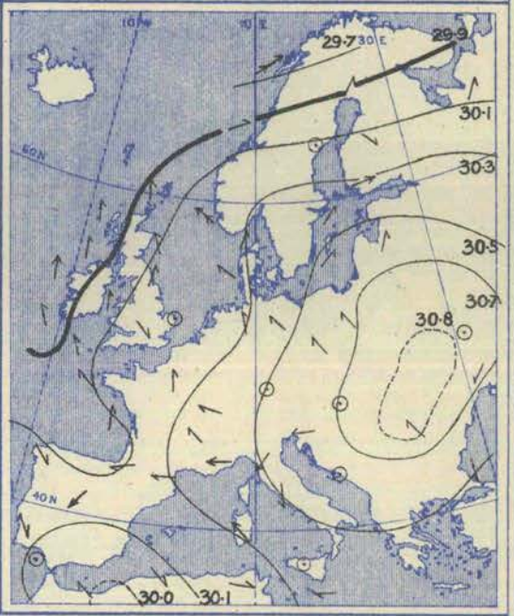


Weather in morning very fine and bright over south-eastern and central Europe, as well as in Denmark and the northern half of Sweden. Very foggy, cloudy, and damp over our Islands and their neighbourhood, and showery at Valencia (Ireland). Rain falling later over all our western and northern districts; heavily at several of the Irish stations and at Stornoway, as well as at Barcelona and at Cagliari. Fog continuing over England during greater part of day.

Temperature fallen fast over England; very rapidly over central and south-eastern Europe. Morning readings highest, 65° to 66° at the Algerian stations, 61° at Barcelona, 55° at Scilly, 53° at Valencia and Holyhead, 50° at Malin Head. Lowest, (1) 7° to 14° Fahr. over the southern half of Russia, 5° at Hermanstadt, 14° at Lemberg and Warsaw, 21° at Vienna, 25° at Cuxhaven; (2) 31° at Cambridge, 32° to 38° over the southern part of our Midland counties. Rising a little over England during the day, rapidly during the succeeding night; touching 66° at Cagliari, 72° at Algiers, and 84° at La Calle.

Barometer and Wind.



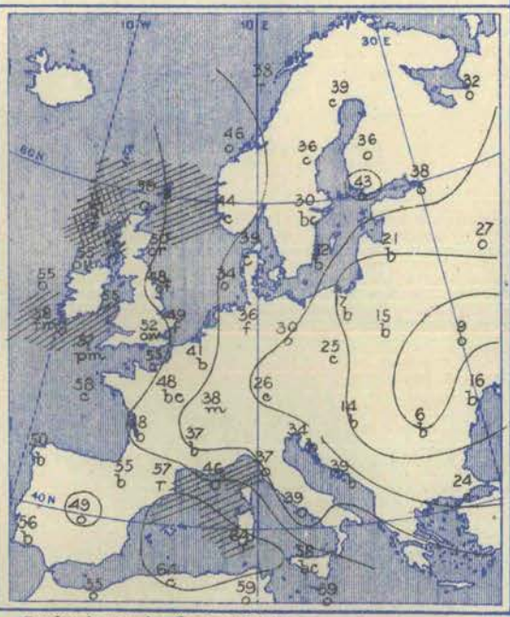


Wind (1) light and anticyclonic over the central parts of Europe, and light Easterly to North-Easterly over France; (2) moderate to strong from the Southward over Scandinavia; (3) very light and variable over the British Islands. A southerly breeze setting in over our western coasts later, and freshening considerably.

Barometer highest, 30·9 ins. to 30·4 ins. in a large anticyclone covering the central, south-eastern and some of the northern parts of Europe, and spreading westwards to England. Lowest, below 30·0 ins. over Finmark, and below 30·1 ins. over the north-western parts of Scotland and Ireland. Falling decidedly later at our western and north-western stations.

Friday, 12th November.

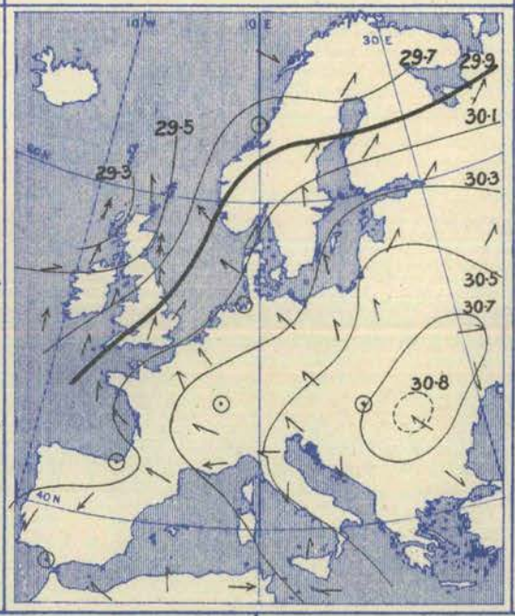
Temperature and Weather. — 8 a.m.

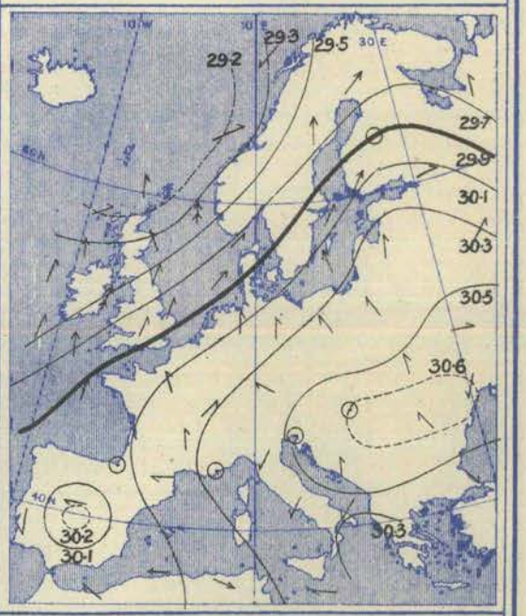


Weather in morning fine and bright over south-eastern Europe, as well as over Poland, north Germany and the Baltic provinces, and the greater part of the Spanish Peninsula; very dull and unsettled over the British Islands and their neighbourhood, with rain at the western and northern stations. Rain falling heavily over Ireland and Wales later, and in considerable quantities at Sumburgh Head and Bodö; heavy falls also at stations in the extreme south-west of France.

Temperature risen very rapidly over the United Kingdom, and some parts of France and north Germany. Morning readings highest, 65° at La Calle, and exceeding 60° at several stations on the southern and western shores of the Mediterranean; 58° at Valencia (Ireland), 57° at Scilly, 55° at Dungeness, Holyhead, and Malin Head. Lowest, (1) 4° Fahr. at Kharkov, 6° at Hermanstadt, and below 20° over the southern half of Russia, Poland, Hungary, and at Vienna; 26° at Munich, 27° at Swinemunde, 30° at Stockholm. Rising later to between 58° and 60° in many parts of our Islands to 60° at Paris, 66° at Biarritz, 68° at Cagliari, and 77° at Tunis. Falling again over Ireland at night.

Barometer and Wind.



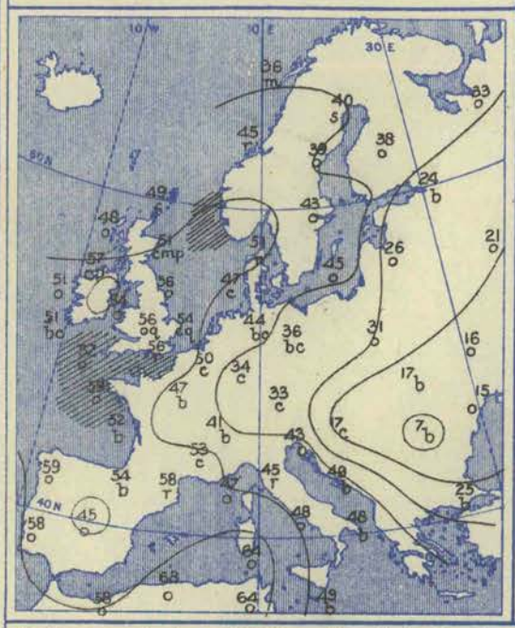


Wind light and anticyclonic over all the south-eastern half of Europe, but strong and cyclonic in the north-west and blowing a gale at some of the Irish and Scotch stations—South-South-Westerly and Southerly over the United Kingdom, South-Easterly at Fanö and Skudesnaes, South-Westerly and Westerly over the more northern countries. Blowing a gale over the Irish Sea later, and increasing greatly over the south and east of England, but moderating in the west of Ireland.

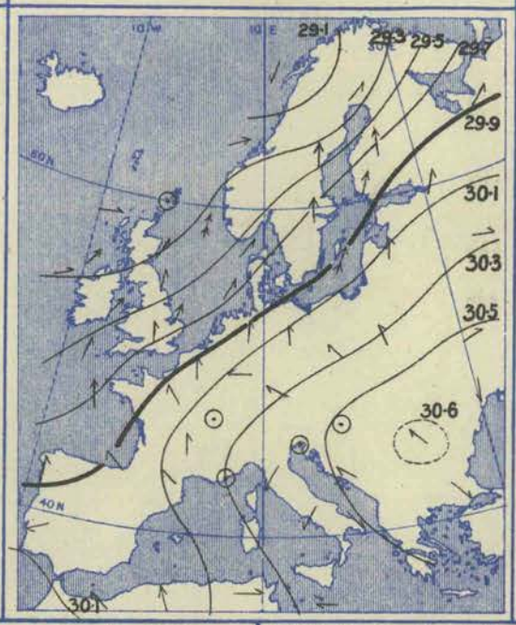
Barometer highest, 30·83 ins. at Hermanstadt and varying from that value to 30·3 ins. over the central, south-eastern and southern parts of Europe generally. Lowest, below 29·3 ins. over the Hebrides and north-west of Scotland, and below 29·6 ins. over Lapland and also at Valencia (Ireland). Falling later over the whole of our Islands and western Europe.

Saturday, 13th November.

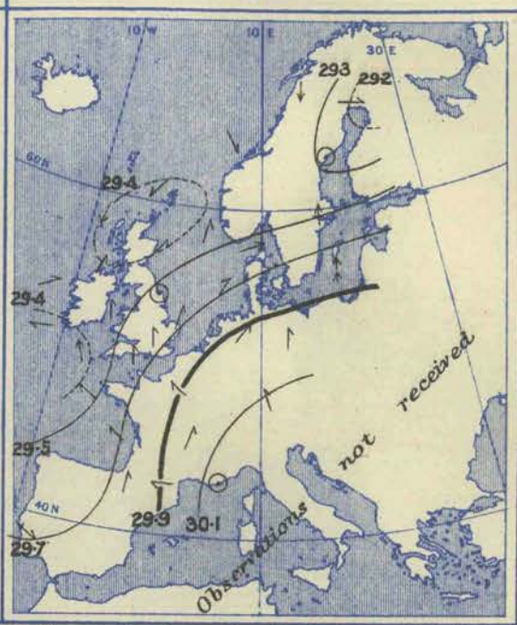
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the central and western parts of Continental Europe, dull elsewhere, with rain and snow over the western and northern parts of Scandinavia, rain showers in some parts of the British Islands. Considerable rain falling later over our western and northern districts, and in Sweden and Norway, followed by snow at the most northern stations; weather remaining fair over the south-eastern parts of England, Germany, and the north of France, but large quantities of rain reported from south-western Europe (as much as 8·3 ins. at Cape Bearn and 1·3 ins. at Perpignan).

Temperature risen rapidly over the Baltic, north Germany, and the south of Russia, and slightly over England, where, however, readings were very high for the time of year; fallen over Scotland. Morning readings highest, 68° to 65° along the north coast of Africa, 58° at Lisbon and Perpignan, 57° to 54° at the English stations, 51° along the west coast of Ireland and at Skudesnaes; 48° in the north of Scotland. Lowest, 7° at Hermanstadt, 21° at Moscow, 24° at St. Petersburg, 26° at Riga. Rising later to between 55° and 61° over our Islands as a whole, but falling abruptly in the north of Scotland towards night.

Wind light and variable (anticyclonic) over south-eastern and eastern Europe; cyclonic from between South and South-West over the British Islands and northern Europe, and blowing a gale over Scandinavia, and strongly over England. Moderating in the last-named regions later, but shifting to East suddenly in the north of Scotland, and increasing in force.

Barometer highest, 30·69 ins. at Hermanstadt, and exceeding 30·1 ins. over eastern, central, and southern Europe generally, and the Mediterranean. Lowest, below 29·1 ins. over Finmark, and below 29·2 ins. over the Shetlands, and the extreme northern parts of Scotland, and the Hebrides; below 29·4 ins. at Valencia. A new depression appearing over the Bay of Biscay later, but a rapid rise of the barometer (breaking up the previous depression) taking place over the north of Scotland and west of Norway.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line bein given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟫⟶ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

Throughout the greater part of this period the weather in our eastern and southern districts was affected by a large anticyclone, the central portion of which drifted gradually southwards across Scandinavia and the west of Russia. The winds over western Europe were therefore mainly from the East and South-East, and the weather fair and dry, but in the west and south-west of our Islands rain fell between the 7th and 9th, the disturbing influence being seen in a depression which first appeared off our extreme south-west coasts, but which afterwards moved out in a north-westerly direction over the Atlantic.

Towards the close of the week, however, the anticyclone began to move away bodily to the south-eastward, while depressions skirted our north-western and northern coasts. The wind therefore shifted to the Southward or South-Westward and increased to a gale in the west and north of our Islands, with heavy rain in many places. Some local irregularities in pressure over the south of France and the neighbouring parts of the Mediterranean were also attended by thunderstorms and heavy rain, the fall at Cape Béarn on the 13th amounting to no less than 8·3 ins. Quite at the close of the period the barometer was beginning to rise fast in the extreme north and north-west of our Islands, and a new anticyclone was spreading over north-western Europe from the Atlantic.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 266.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	4·1	−10·9	7	−16	EASTBOURNE	9·3	− 8·2	15	−11
OSWALDKIRK (Yorkshire)	0·0	−13·0	0	−21	VENTNOR	7·1	?	11	?
WORKSOP	0·1	−13·3	0	−20	SOUTHPORT	0·7	?	1	?
THURCASTON (Leicestershire)	0·2	−14·8	0	−24	COLWYN BAY	15·1	?	25	?
MARGATE	1·2	−16·1	2	−25	TENBY	4·3*	−13·5	7*	−20
WESTBOURNE (Sussex)	8·5*	− 8·1	13*	−12	NEWQUAY	9·6	−10·4	15	−16
BRIGHTON	8·8	−11·2	14	−16	TORQUAY	1·4*	−16·1	2*	−24
					GUERNSEY	13·5*	− 4·1	21*	− 5

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder.

WYMAN & SONS, LTD., LITH., 63, CARTER LANE

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

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VOL. XIV No. 46.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 20TH, 1897. [*Price 6d.* *Annual Subscription post paid* £1 10s. 0d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 272.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	56	20	48·0	36·5	42·3	1 above	25	+ 6	15	0	2130	+216	667	- 27
	1. SCOTLAND, EAST	59	12	50·6	36·9	43·8	4 above	34	+14	14	- 5	2352	+ 52	717	- 18
	2 ENGLAND, N.E.	58	24	51·8	39·6	45·7	4 above	36	+11	7	- 5	2608	+111	484	-108
	3. ENGLAND, EAST	61	28	53·7	38·4	46·0	4 above	43	+14	10	- 4	3042	+154	519	-150
	4. MIDLAND COUNTIES	59	26	52·1	38·4	45·3	3 above	38	+10	10	- 6	2951	+ 92	532	-155
	5. ENGLAND, SOUTH	61	34	54·1	43·6	48·9	5 above	48	+11	0	- 8	3423	+275	297	-213
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	58	23	50·5	41·3	45·8	4 above	30	+ 5	2	-10	2562	+131	453	- 61
	7. ENGLAND, N.W.	61	29	51·8	42·0	46·9	3 above	34	+ 5	0	- 9	2854	+189	367	-125
	8. ENGLAND, S.W.	60	26	53·9	42·4	48·2	3 above	43	+ 3	0	- 5	3247	+284	223	-157
	9. IRELAND, NORTH	55	29	50·6	40·6	45·6	3 above	31	+ 4	4	- 7	2645	+ 83	408	- 26
	10. IRELAND, SOUTH	58	29	52·4	41·1	46·8	2 above	37	0	3	- 5	3136	+222	245	- 88
	—CHANNEL ISLANDS	61	40	57·6	49·0	53·3	5 above	79	+22	0	- 1	3836	+421	68	- 81

Rainfall. **Bright Sunshine.**

	DISTRICTS. (See p. 272.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	11	1 less	199	-14	37·3	- 5·1	5	- 3	8	- 6	1214	+185	29	+ 4
	1. SCOTLAND, EAST	3	6	1 less	178	+ 3	25·5	- 2·6	11	- 1	20	- 1	1308	+ 81	32	+ 2
	2. ENGLAND, N.E.	4	8	2 more	159	- 5	21·2	- 2·0	12	0	21	0	1391	+155	34	+ 4
	3. ENGLAND, EAST	3	3	3 less	152	- 8	20·2	- 2·9	20	+ 5	33	+ 9	1549	+ 85	38	+ 2
	4. MIDLAND COUNTIES	4	4	2 less	152	- 5	23·3	- 1·7	14	0	23	0	1457	+135	36	+ 4
	5. ENGLAND, SOUTH	3	3	4 less	143	-10	22·3	- 3·4	13	- 2	21	- 3	1613	+ 76	40	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	12	1 less	192	+10	39·0	- 3·4	11	0	20	0	1358	+ 25	32	0
	7. ENGLAND, N.W.	3	11	3 more	173	+ 3	29·6	- 1·1	13	+ 1	22	+ 2	1465	+128	35	+ 3
	8. ENGLAND, S.W.	3	4	7 less	180	+ 7	36·1	+ 1·9	13	- 3	22	- 3	1566	- 14	39	0
	9. IRELAND, NORTH	4	3	6 less	204	+ 7	34·4	+ 1·5	9	- 6	17	- 8	1228	+ 22	30	+ 1
	10. IRELAND, SOUTH	3	15	6 more	192	+13	40·5	+ 6·6	15	- 1	25	- 2	1357	- 14	33	- 1
	— CHANNEL ISLANDS	4	2	7 less	192	+10	30·3	+ 1·4	15	- 7	24	- 9	1650	-129	42	- 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was in an unsettled condition during the earlier half of the period, with considerable falls of snow and sleet in the north and north-west, and a good deal of rain elsewhere. Later in the week the weather became fair and dry generally, but with local fogs and mists over England.

Temperature soon after the commencement of the week became temporarily low in Scotland, and the change subsequently spread southwards to England and Ireland. By the 17th, however, the thermometer had risen again, and the average values for the week were above the mean in all districts, the excess ranging from 1° in Scotland N., to 4° in Scotland E. and W., and England N.E. and E., and to 5° in England S. and the Channel Islands. The highest of the maxima were recorded on rather irregular dates, and ranged from 61° in England N.W., E. and S., and the Channel Islands, to 55° in Ireland N. The lowest of the minima were registered either on the 16th or 19th, and ranged from 12° in Scotland E. (at Braemar), and from 20° in Scotland N., to 34° in England S., and to 40° in the Channel Islands.

Rainfall exceeded the mean in England N.E. and N.W., and also in Ireland S., but was less than the normal in all other districts. Heavy rain occurred on Tuesday or Wednesday in the south and south-west of Ireland and at Holyhead.

Bright Sunshine was less than the mean in nearly all districts, but exceeded it in England E. and N.W. The percentage of the possible duration ranged from 33 in England E., to 25 in Ireland S., and 24 in the Channel Islands, to 17 in Ireland N., and to 8 in Scotland N.

Barometer and Wind.—During the earlier part of the week an anticyclone, which had rapidly approached our north-western coasts on Sunday, passed south-eastwards over the Kingdom to the Continent. The sudden increase of pressure caused by this system produced strong Northerly gales in the north on Sunday, and fresh or strong winds from the same quarter elsewhere. By Tuesday, however, this high-pressure area had passed to the south-eastward of our Islands, the wind shifted to the Southward, and a depression, moving north-eastward, appeared off our western coasts, and as the disturbance advanced the wind increased to the force of a gale at some of our north-western stations. During the latter part of the week another anticyclone spread over the southern half of the Kingdom from the Atlantic, producing light variable or Easterly airs in all our southern districts, while in the north the wind veered to the Westward, and continued to blow freshly or strongly.

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II.—DATA from which the SUMMARY on page 271 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	52	29	46·3	36·6	41·5	− 0·5	12	22	7	0·89	− 0·09	*	*	*	*
	Stornoway	52	26	47·3	36·4	41·9	+ 0·2	15	24	6	1·66	+ 0·54	3·1	− 8·0	6	−14
	Wick	56	26	49·0	35·7	42·4	+ 1·4	29	18	3	0·28	− 0·39	*	*	*	*
	Lairg ℒ	54	23	47·0	34·4	40·7	+ 0·9	14	30	5	0·65	− 0·15	*	*	*	*
	Glencarron ℒ	53	20	47·5	35·7	41·6	+ 1·6	15	26	6	2·57	+ 0·31	*	*	*	*
	Fort Augustus ℒ	55	20	49·5	37·0	43·3	+ 2·1	30	14	5	0·68	− 0·36	?4·5	? − 0·4	?8	?0
	Fort William ℒ	54	26	49·4	39·7	44·6	+ 2·5	28	6	6	1·15	− 0·75	6·1	− 1·9	11	− 3
1. SCOTLAND, E.	Nairn	58	19	50·9	35·0	43·0	+ 2·9	36	20	4	0·41	− 0·10	*	*	*	*
	Aberdeen	59	24	50·9	36·7	43·8	+ 2·5	35	15	2	0·65	− 0·13	14·1	− 0·7	26	0
	Braemar ℒ	53	12	46·4	32·5	39·5	+ 2·0	12	37	2	0·36	− 0·49	7·8†	+ 0·8†	15†	+ 2†
	Ochtertyre ℒ	57	22	51·7	38·1	44·9	+ 4·5	37	11	3	0·58	− 0·44	*	*	*	*
	Leith	57	27	52·3	40·0	46·2	+ 3·8	38	6	3	0·45	− 0·04	*	*	*	*
	Marchmont ℒ	55	22	51·4	39·0	45·2	+ 5·2	35	8	4	1·18	+ 0·35	12·0	− 1·5	22	− 2
2. ENGLAND, N.E.	Alnwick Castle	56	24	51·6	39·4	45·5	+ 3·9	35	7	5	0·91	+ 0·15	*	*	*	*
	Durham	56	26	50·4	37·2	43·8	+ 2·8	33	13	3	0·80	+ 0·15	10·1	− 3·0	18	− 4
	Shields	57	29	52·4	40·6	46·5	+ 4·0	37	4	4	0·84	+ 0·28	*	*	*	*
	Scarborough ℳ	57	30	52·0	39·3	45·7	+ 2·7	37	8	4	1·05	+ 0·37	11·7	?	20	?
	York	58	29	52·7	39·0	45·9	+ 3·9	40	8	3	0·75	+ 0·24	11·9	+ 1·2	21	+ 3
	Spurn Head	55	36	51·6	42·3	47·0	+ 3·5	35	0	4	0·26	− 0·26	*	*	*	*
3. ENGLAND, E.	Hillington ℳ	60	30	52·5	37·5	45·0	+ 3·0	40	13	3	0·44	− 0·18	21·1	+ 7·9	36	+14
	Yarmouth	57	34	52·9	40·6	46·8	+ 3·8	39	4	4	0·21	− 0·47	*	*	*	*
	Geldeston	60	31	54·6	38·4	46·5	+ 3·4	46	10	4	0·19	− 0·42	21·8	+ 6·2	36	+12
	Cambridge	61	30	54·7	37·1	45·9	+ 3·8	48	14	2	0·24	− 0·24	20·2	+ 4·7	34	+ 9
	Rothamsted	58	28	53·6	38·4	46·0	+ 4·2	43	10	3	0·28	− 0·36	16·4	+ 1·4	27	+ 2
4. MIDLAND COUNTIES	Harrogate ℳ															
	Bawtry (Hesley Hall)	57	30	52·4	39·0	45·7	+ 3·7	39	8	3	0·58	+ 0·10	*	*	*	*
	Loughborough	59	32	53·6	39·3	46·5	+ 3·5	43	8	4	0·35	− 0·15	*	*	*	*
	Stamford (Duddington)	58	31	51·6	38·1	44·9	+ 2·8	37	11	4	0·25	− 0·40	*	*	*	*
	Cheadle ℳ	55	33	50·5	39·1	44·8	+ 3·8	32	8	4	0·85	+ 0·15	*	*	*	*
	Shirley (near Solihull)	55	31	50·8	38·5	44·7	+ 2·7	34	10	4	0·83	?	*	*	*	*
	Churchstoke ℳ	56	28	51·6	38·7	45·2	+ 3·6	36	9	4	0·25	− 0·55	14·4	+ 1·6	24	+ 4
	Hereford ℳ	57	28	53·3	37·0	45·2	+ 2·2	43	14	4	0·36	− 0·26	*	*	*	*
	Cirencester	59	26	51·9	36·6	44·3	+ 2·7	39	15	3	0·26	− 0·46	12·4	− 2·0	21	− 2
	Oxford	58	31	53·1	39·6	46·4	+ 3·6	41	7	3	0·27	− 0·31	11·8	− 3·0	20	− 3
5. ENGLAND, S.	London	61	35	53·1	42·1	47·6	+ 3·8	39	0	3	0·36	− 0·16	3·8†	− 6·2†	6†	− 9†
	North Foreland	59	38	52·6	44·1	48·4	+ 3·7	45	0	4	0·41	?	*	*	*	*
	Dungeness	59	35	55·4	43·7	49·6	+ 4·6	53	0	3	0·41	− 0·36	*	*	*	*
	Hastings (St. Leonards)	61	38	55·7	44·5	50·1	+ 5·3	57	0	3	0·39	− 0·38	14·7	− 2·3	24	− 4
	Southampton	61	35	55·8	42·2	49·0	+ 4·6	49	0	4	0·31	− 0·40	12·5	− 4·7	20	− 4
	Hurst Castle	59	38	54·4	46·3	50·4	+ 4·7	59	0	2	0·31	− 0·41	*	*	*	*
	Shaftesbury ℳ	57	34	51·9	42·0	47·0	+ 5·2	35	0	3	0·14	− 0·71	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)												*	*	*	*
	Glasgow	54	30	49·2	41·0	45·1	+ 4·0	26	3	5	0·23	− 0·65	9·7	+ 1·7	18	+ 5
	Ardrossan	58	30	51·3	42·0	46·7	+ 3·5	33	0	5	0·36	− 0·51	*	*	*	*
	Glenlee ℒ	56	23	50·0	38·5	44·3	+ 3·5	31	10	6	1·03	− 0·45	*	*	*	*
	Gilcrux (Cumberland)	53	28	49·4	41·1	45·3	+ 4·1	27	3	6	2·87	?	10·3	?	18	?
	Douglas (Isle of Man)	55	31	51·8	43·8	47·8	+ 3·6	41	0	4	1·62	+ 0·55	13·4	− 1·8	23	− 3
7. ENGLAND, N.W.	Stonyhurst	54	31	49·9	40·2	45·1	+ 2·9	29	5	4	1·36	+ 0·33	14·6	+ 3·6	25	+ 7
	Blackpool ℳ	56	29	52·4	41·4	46·9	+ 3·9	37	2	3	1·00	+ 0.22	6·8	− 4·2	12	− 6
	Manchester (Prestwich)	56	33	50·5	40·4	45·5	+ 3·3	31	4	4	0·81	+ 0·01	9·4	?	16	?
	Liverpool Obsy. (Bidston)	57	34	51·4	41·6	46·5	+ 2·8	33	1	3	0·55	− 0·10	*	*	*	*
	Llandudno ℳ	61	35	54·1	45·2	49·7	+ 4·5	54	0	3	0·89	+ 0·11	15·3	+ 3·3	26	+ 6
	Holyhead	55	36	52·4	43·3	47·9	+ 1·7	41	0	3	1·91	+ 1·01	*	*	*	*
8. ENGLAND, S.W.	Llandovery	58	26	52·6	36·1	44·4	+ 1·5	42	17	5	0·48	− 0·70	*	*	*	*
	Pembroke	55	37	53·0	46·4	49·7	+ 2·9	54	0	3	0·53	− 0·42	11·9	− 3·1	20	− 4
	Clifton	57	34	51·5	41·1	46·3	+ 3·3	34	3	3	0·35	− 0·45	*	*	*	*
	Arlington (N. Devon)	57	31	53·6	40.4	47·0	+ 3·5	42	4	4	0·37	− 1·05	*	*	*	*
	Cullompton ℳ	59	30	54·4	39·4	46·9	+ 3·1	45	7	2	0·36	− 0·47	14·5	+ 0·9	24	+ 4
	Falmouth	58	42	54·7	45·8	50·3	+ 2·6	58	0	3	0·12	− 1·13	16·8	− 1·0	27	− 1
	Plymouth	58	37	55·6	44·4	50·0	+ 3·6	56	0	2	0·09	− 0·81	9·2	− 6·1	15	− 8
	Prawle Point	60	39	55·6	45·6	50·6	+ 3·9	60	0	3	0·54	− 0·17	*	*	*	*
9. IRELAND, N.	Malin Head	53	35	49·6	43·0	46·3	+ 2·1	30	0	5	0·22	?	*	*	*	*
	Londonderry	55	34	50·2	41·7	46·0	+ 3·2	29	1	3	0·14	− 0·83	*	*	*	*
	Edenfel (Omagh)	53	30	49·7	39·0	44·4	+ 3·5	29	8	5	0·26	− 0·54	*	*	*	*
	Belmullet	54	36	50·9	42·4	46·7	+ 1·6	33	0	6	0·26	− 1·12	*	*	*	*
	Markree Castle	54	30	50·6	40·8	45·7	+ 3·2	31	3	2	0·18	− 0·75	7·9	− 6·9	14	−10
	Armagh	55	29	50·3	39·1	44·7	+ 2·7	31	8	2	0·21	− 0·44	10·9	− 3·1	19	− 6
	Donaghadee	55	35	52·0	41·4	46·7	+ 2·8	35	2	4	0·70	0·00	*	*	*	*
	Edgeworthstown	55	30	51·7	37·1	44·4	+ 2·4	37	14	2	0·71	− 0·09	*	*	*	*
10. IRELAND, S.	Dublin	58	34	52·7	42·7	47·7	+ 2·9	40	0	3	0·70	+ 0·15	15·3	− 2·3	26	− 2
	Parsonstown	56	29	51·7	38·3	45·0	+ 2·7	37	10	2	1·26	+ 0·56	14·6	− 0·6	25	− 1
	Kilkenny	55	32	51·7	39·6	45·7	+ 1·7	36	7	3	1·68	+ 1·03	*	*	*	*
	Roche's Point	55	35	53·7	42·9	48·3	+ 1·9	44	0	3	1·39	+ 0·27	*	*	*	*
	Valencia	58	35	53·4	42·3	47·9	+ 0·7	41	0	4	2·64	+ 1·34	14·1	− 2·0	24	− 2
	Killarney												*	*	*	*
	Foynes	56	33	50·9	40·9	45·9	+ 1·2	32	3	2	1·18	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	60	44	57·4	48·6	53·0	+ 3·6	77	0	4	0·16	− 0·74	24·9	?	40	?
	Jersey	61	40	57·7	49·3	53·5	+ 5·4	81	0	3	0·24	− 0·74	9·3	− 8·8	15	−12

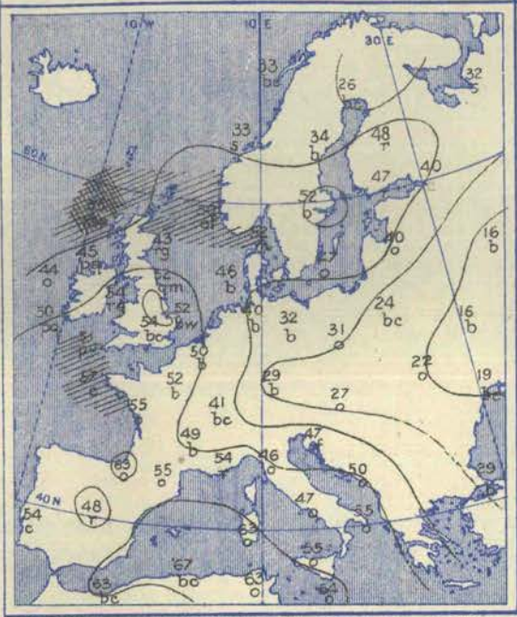
Stations marked ℳ are in connection with the Royal Meteorological Society, and those marked ℒ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

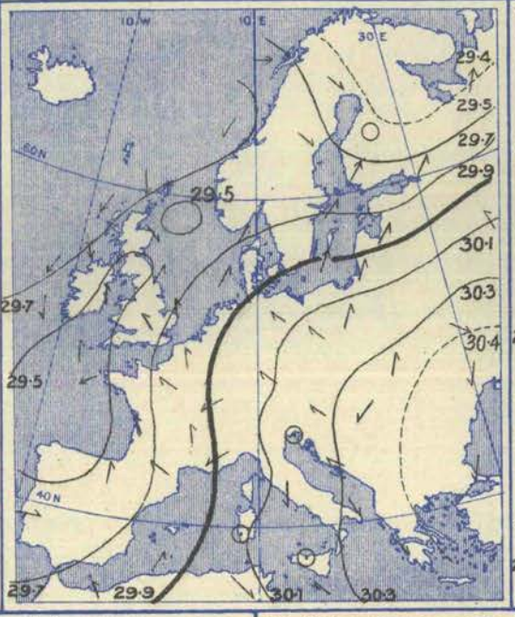
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 14th November.

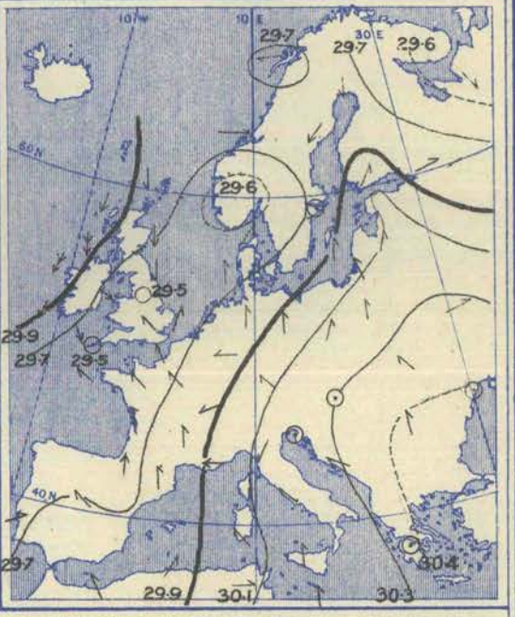
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the south and east of England, but cloudy in most other parts of our Islands, with rain in many places, and snow or sleet in the north of Scotland, as well as at Christiansund. Fine over the northern parts of Scandinavia, as well as in Denmark, north Germany, the Netherlands, and central France; dull in other parts of the Continent, with rain in several isolated places. Rain falling during day in most parts of western and southern Europe, and sleet showers at many of our own northern stations.

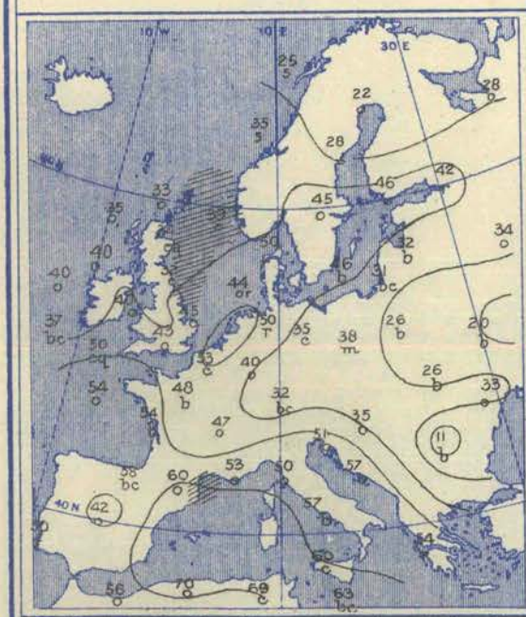
Temperature fallen over north-western and central Europe generally, but risen in most other regions. Morning readings highest, 67° at Algiers, and 64° at Malta; above 55° at most of the Mediterranean stations, as well as in the English Channel. Lowest, 16° at Moscow and Kiev, 18° at Nicolaieff, and 19° at Kharkov and Odessa; below the freezing point over the greater part of eastern and central Europe, and very little above it in the Shetlands and Hebrides. Daily maxima below 40° in the north of Scotland, but thermometer rising to between 55° and 60° over the central and southern parts of England. Exceeding 65° at many stations in the west and south of France.

Wind light to fresh from the Southward over England and the western and central parts of the Continent, but Northerly in Ireland and Scotland, with a gale on our extreme north and north-west coasts. South-Westerly over Denmark, the Gulf of Finland, and the southern parts of Scandinavia. Calm or variable over Austria and the south of Russia; light from the Northward or North-Westward in Italy. Northerly winds setting in later over the north and west of England; no important change occurring elsewhere.

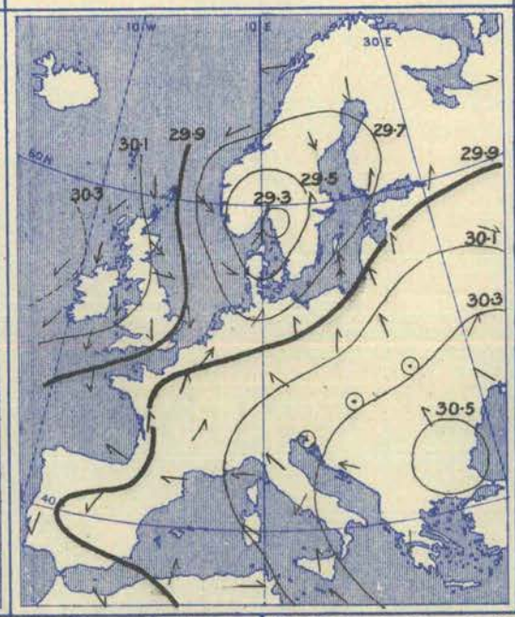
Barometer highest, 30·4 ins. and upwards over south-eastern Europe; 30·1 ins. and upwards in an anticyclone embracing nearly all the more eastern and central parts of the Continent. Lowest, 29·4 ins. and less in a depression lying over the extreme north of Russia; 29·5 ins. in an irregularly formed area extending from the north of Spain and the Bay of Biscay over the western parts of Great Britain and the east of Ireland to the extreme south of Scotland. Low pressure area subsequently moving slowly south-eastwards, but well-marked depression being developed over the south of Norway.

Monday, 15th November.

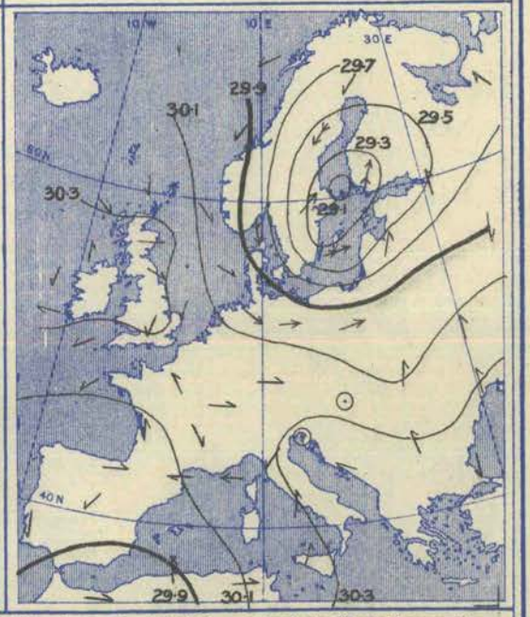
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair or fine over the greater part of our Islands, but showery at Pembroke, and rainy on the Kentish coasts, as well as over the Netherlands, north Germany, Denmark, and the extreme south of Norway. Dull in Spain, the south of France, northern Italy, and Austria, but fine in Poland and the south of Russia, as well as over the west of France and southern Italy. A little rain or sleet falling later in many parts of western and central Europe, and considerable quantities of snow in Scandinavia.

Temperature fallen over western and northern Europe, but risen in the central and southern countries. Morning readings highest, 70° at Algiers, 69° at La Calle, and 65° at Cagliari; above 55° at the Mediterranean and Adriatic stations generally. Lowest, (1) 11° at Hermanstadt, 20° at Kiev, and 22° at Kharkov; (2) 22° at Haparanda, and 25° at Bodö; below the freezing point over central Ireland, and very little above it in the northern parts of Great Britain. Daily maxima below 45° over the northern and central parts of our Islands; thermometer rising to 65° and upwards in the west and south of France, as well as in Spain and Italy, the highest reading of all being 79° at Palermo.

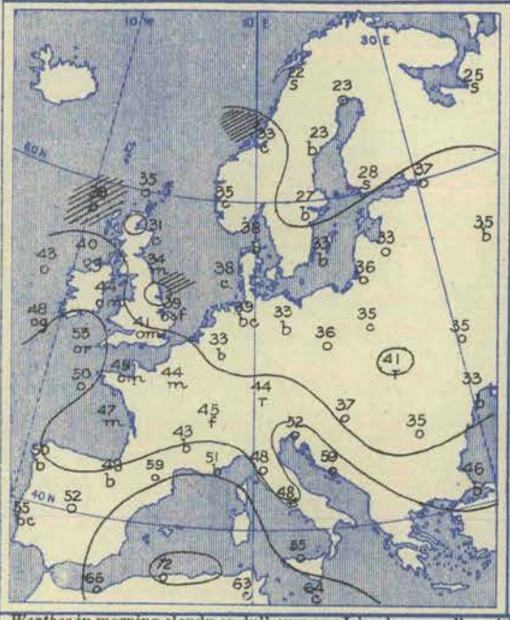
Wind light to fresh from the Northward over Great Britain, and from the North-Eastward in Ireland, but light from the Southward over central France, and from the Eastward or North-Eastward over Spain, Italy, and the extreme south of France. Varying between East and North over the northern parts of Scandinavia, but strong to a gale from the Northward in the south of Norway, and from the Southward in the south of Sweden. Southerly also over the greater part of Russia and Germany; calm in Austria. Subsequently backing to the North-Westward or Westward in the north of Scotland. South-Westerly gales springing up over Finland and the Baltic Provinces.

Barometer highest, 30·5 ins. and upwards over Turkey and the neighbouring provinces; 30·1 ins. and upwards in an anticyclone embracing all the more south-eastern parts of the Continent, as well as in another system extending from the Atlantic over the western and northern parts of our Islands. Lowest, 29·4 ins. and less in a well-marked depression, with its centre over the Skager Rack. Atlantic high-pressure system subsequently spreading over the greater part of western Europe; depression moving eastwards, but becoming deeper.

Tuesday, 16th November.

Temperature and Weather.

8 a.m.

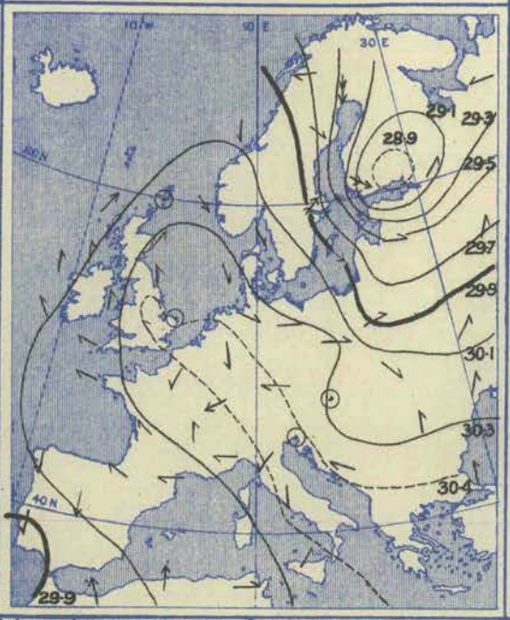


Weather in morning cloudy or dull over our Islands generally, with fog or mist at several of our eastern stations, and rain on our extreme south-west coasts. Fine over the western and northern parts of the Continent, but dull over northern Russia, with snow at Archangel and Helsingfors, as well as at Bodö. Cloudy or dull in the central and southern countries, with rain in several parts of Austria and south Germany. Rain falling later over nearly the whole of our Islands—heavily in the south of Ireland; snow reported at St. Petersburg.

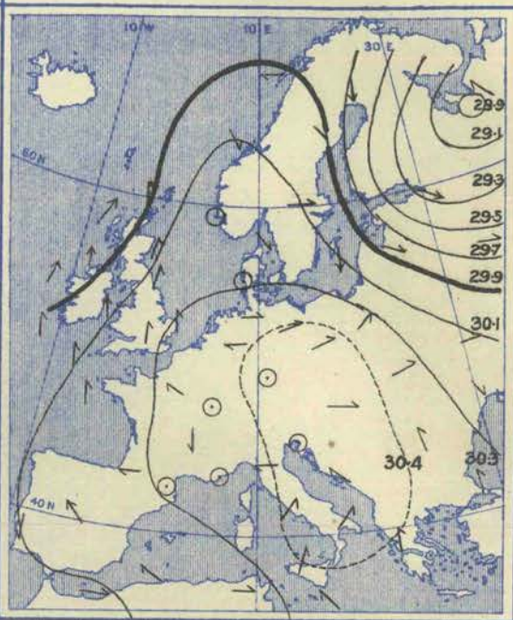
Temperature risen in our Islands, and also over the southern and eastern parts of the Continent, but fallen elsewhere. Morning readings highest, 78° at La Calle, 72° at Algiers, and 66° at Nemours; above 55° at the Mediterranean and Adriatic stations generally. Lowest, 22° at Bodö, 23° at Haparanda and Hernösand, and 25° at Archangel and Karlstad; below the freezing point over the greater part of Scandinavia and northern Russia, and also over eastern and central Scotland. General rise taking place over our Islands during day and ensuing night, and maxima (registered next morning) varying between 50° and 55° in most places. Thermometer exceeding 60° over southern Europe generally.

Barometer and Wind.

8 a.m.



6 p.m.



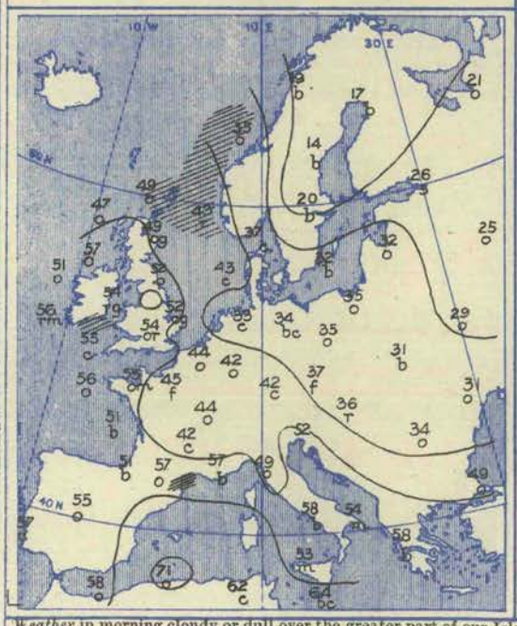
Wind light to moderate from the Eastward or South-Eastward over France and the southern parts of our Islands, but from the Southward or South-Westward on all our more northern coasts. North-Westerly over the greater part of northern Europe, with strong gales over the Gulf of Finland and the northern parts of the Baltic; light to moderate from the Westward in Germany, and from South-West over central and southern Russia. Variable in Austria and Italy; Northerly over the Spanish Peninsula; Southerly in Algeria. Subsequently increasing to a slight gale from the Southward or South-Westward on our own extreme north-west coasts; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in a long band stretching from the eastern parts of the Mediterranean across Greece, Italy, and Switzerland, to the Netherlands and the east of England; 30·1 ins. and upwards in an anticyclone covering all the more western, central, and southern parts of Europe. Lowest, 29·0 ins. and less in a depression with its centre lying apparently over the Gulf of Finland. New disturbance advancing later to our own extreme north-west coasts, and barometer falling briskly over the United Kingdom.

Wednesday, 17th November.

Temperature and Weather.

8 a.m.

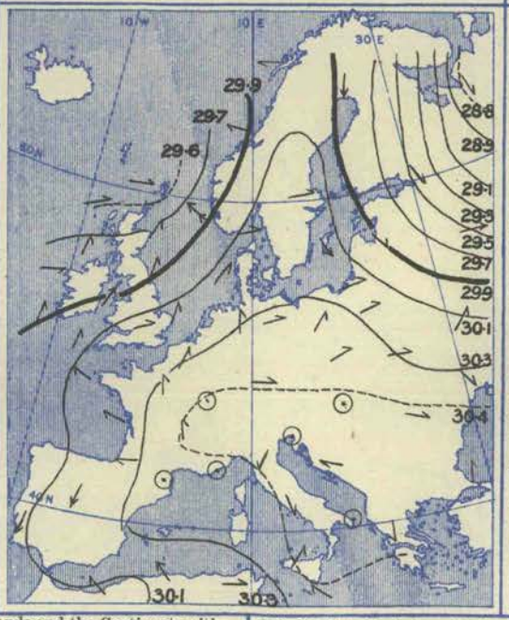


Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain at several of our own western and southern stations, and also at Skudesnaes, Prague, and Buda-Pesth; snow falling at St. Petersburg. Fine in Sweden, and also in the west and south of France; foggy over central France. Rain falling later in most parts of north-western Europe—heavily at some of our own western stations. Large quantities of rain or snow reported also in Sweden, and smaller amounts over northern Russia.

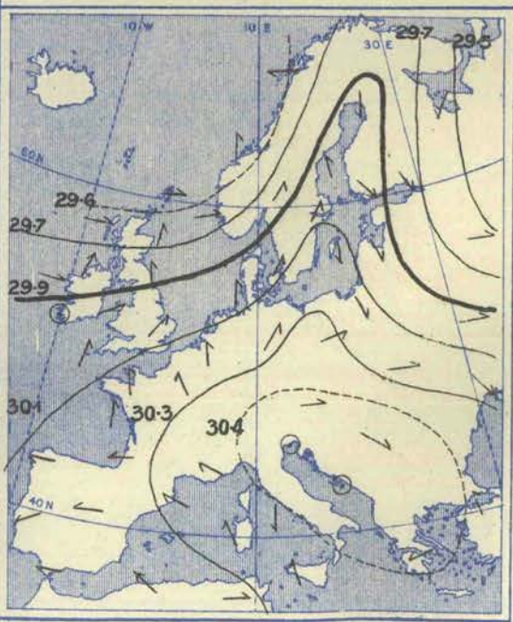
Temperature risen quickly in our Islands, and less rapidly in the neighbouring parts of the Continent, but fallen elsewhere. Morning readings highest, 71° at Algiers, 65° at La Calle, and 64° at Oran and Malta; above 55° at most of the Mediterranean and Spanish coast stations, and just touching that point on several parts of our own southern and south-western coasts. Lowest, 14° at Hernösand, 17° at Haparanda, and 19° at Bodö and Karlstad; below the freezing point in most parts of Russia and Scandinavia. Rising during day to 55° and upwards over the United Kingdom generally; exceeding 60° in the west of France and most parts of southern Europe, and reaching 72° at Limoges.

Barometer and Wind.

8 a.m.



6 p.m.

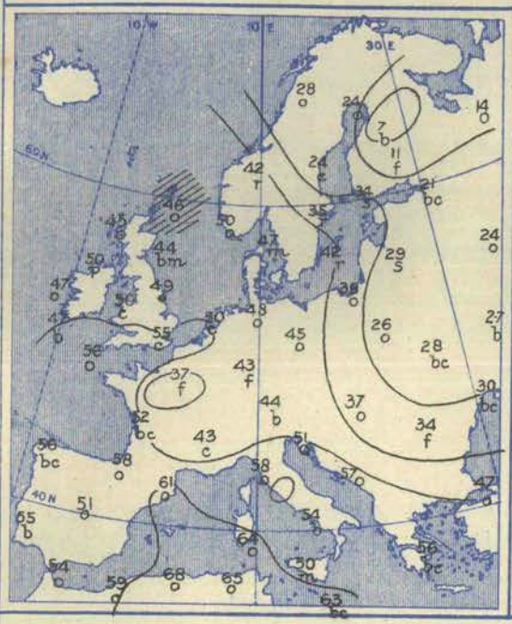


Wind light to fresh from the Southward or South-Westward over our Islands and the adjacent parts of the Continent; South-Easterly or Easterly in the west of Norway, with a gale at Skudesnaes. Northerly or North-Westerly over Sweden and northern Russia; Westerly over the central and southern parts of Russia. Variable in Germany, Austria, and Italy; Easterly or South-Easterly in the west and south of France; Northerly or North-Easterly over the Spanish Peninsula. No important change occurring over western Europe during day, but wind backing to the South-Westward or Southward at some of the Swedish stations.

Barometer highest, 30·4 ins. and upwards over all the more south-eastern parts of Europe; 30·2 ins. and upwards in an anticyclone covering the greater part of the Continent. Lowest, 28·8 ins. and less in a deep depression over the extreme north of Russia; 29·6 ins. and less in another disturbance lying off the north of Scotland. Former depression subsequently moving away to the eastwards; disturbance off north of Scotland passing slowly north-eastwards towards the Norwegian coasts.

Thursday. 18th November.

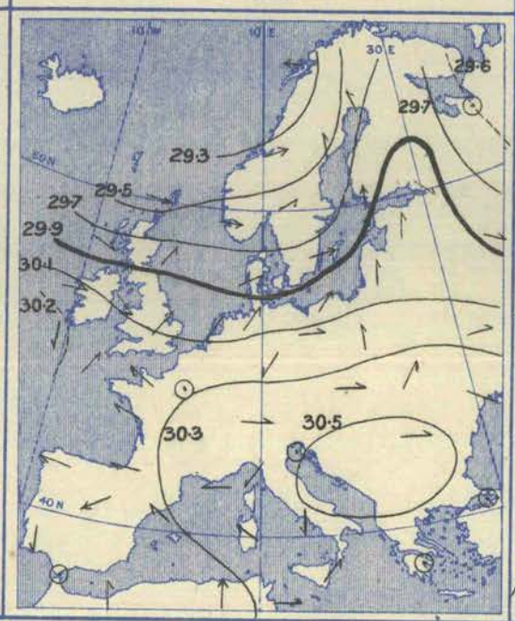
Temperature and Weather. — 8 a.m.

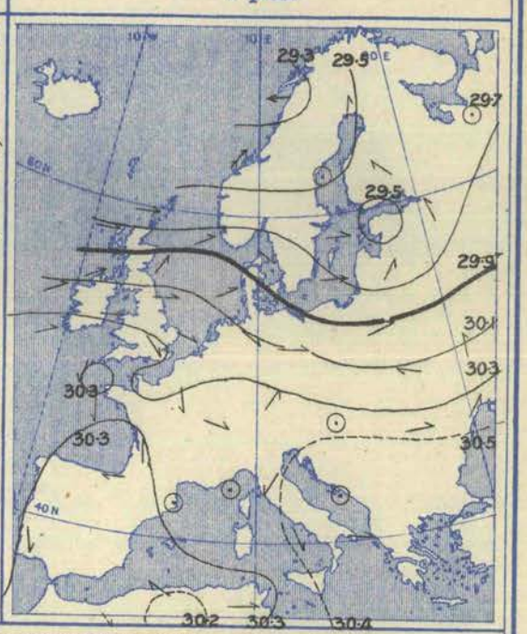


Weather in morning fair over the greater part of western and southern Europe, but dull in the northern and central parts of England, with slight rain in places. Dull in most of the northern and central countries, with fog in many parts of Germany, Austria, and central France, rain in Denmark and the southern parts of Scandinavia, and snow over the Baltic provinces and the Gulf of Finland. Showers falling in several parts of Great Britain, heavy rain in the west of Norway, and considerable quantities of snow over northern Russia.

Temperature risen quickly in Scandinavia, Denmark, and Germany, but fallen in most other localities. Morning readings highest, 68° at Algiers and Tunis, 64° at Cagliari, and 63° at Malta; above 55° at most of the Adriatic, Mediterranean, and Spanish coast stations, as well as over the English Channel. Lowest, 7° at Uleaborg, 11° at Kuopio, 14° at Archangel, and 19° at Kharkov; below the freezing point over the whole of Russia and the northern parts of Scandinavia. Rising during day to 55° and upwards in the south of England, and to 60° at Jersey, exceeding 60° in most parts of France and southern Europe, and reaching 75° at Palermo. Frost occurring in several of the inland parts of England at night.

Barometer and Wind. — 8 a.m. and 6 p.m.



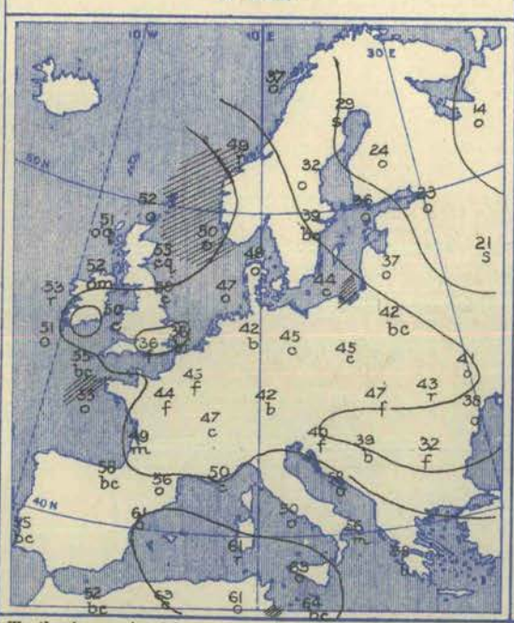


Wind Westerly or South-Westerly over our Islands and the northern and central parts of the Continent as a whole, but Southerly over the Gulf of Bothnia and Easterly at Bodö; light to moderate in force generally, but strong at some of the Scandinavian and Baltic stations. Light from the Eastward or South-Eastward over the greater part of France, but Northerly or North-Easterly in Spain and Italy; calm or variable in Austria. Subsequently veering to the North-Westward or Northward on our own extreme southern coasts; and increasing to a gale from the Westward in the west of Norway.

Barometer highest, 30·5 ins. and upwards over Turkey, the neighbouring provinces and the southern parts of the Adriatic; 30·2 ins. and upwards in an anticyclone covering the whole of central and southern Europe, and also in a new system just appearing off the south-west of Ireland. Lowest, 29·3 ins. and less in a depression off the west of Norway; 29·6 ins. and less in another disturbance over northern Russia. Anticyclone from Atlantic subsequently spreading over all the more southern parts of our Islands and also over France; depression off west of Norway growing somewhat deeper.

Friday, 19th November.

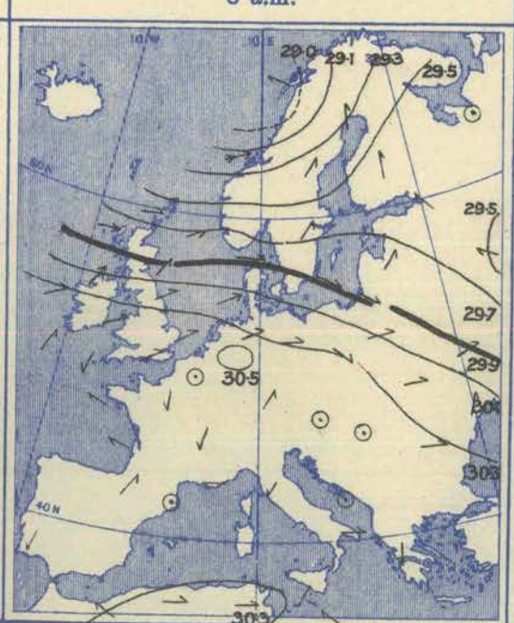
Temperature and Weather. — 8 a.m.

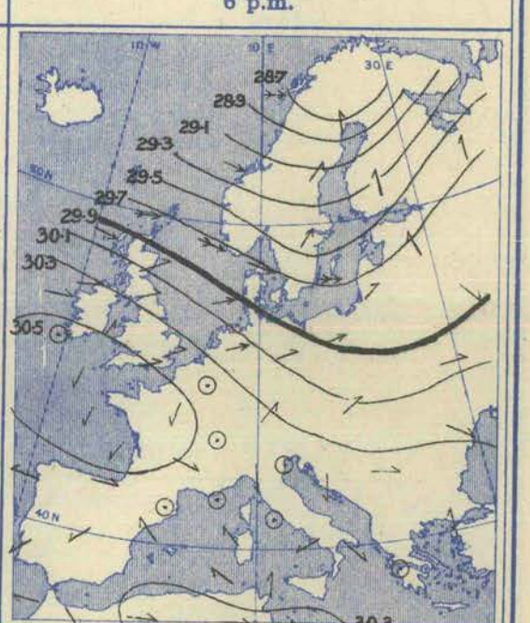


Weather in morning fair over western Europe as a whole, but foggy over the south-eastern parts of England, as well as in Belgium and central France. Dull in most other parts of Europe, with fog in Austria, rain at Christiansund and snow at Haparanda and Moscow. Slight rain falling later in the extreme north and north-west of our Islands generally, and larger amounts at Christiansund and Haparanda; lightning seen at Christiansund at night, and thunderstorm occurring at Skudesnaes as well as at Algiers.

Temperature fallen considerably over England, risen or changed irregularly elsewhere. Morning readings highest, 68° at Sfax, 64° at Malta, and 63° at Algiers; above 55° at most of the Mediterranean and Adriatic stations, and just touching that point in the north-east of Scotland. Lowest, 14° at Archangel, 21° at Moscow, 23° at Uleaborg and St. Petersburg, and 24° at Kuopio; below the freezing point over the northern parts of Sweden and Russia generally, and very little above it over central England. Rising later to 59° at Aberdeen, to 60° at Prawle Point, and to 61° at Jersey, but remaining below 50° at many stations in the south-east of England. Exceeding 60° over southern Europe generally, and reaching 70° at Palermo and San Fernando.

Barometer and Wind. — 8 a.m. and 6 p.m.



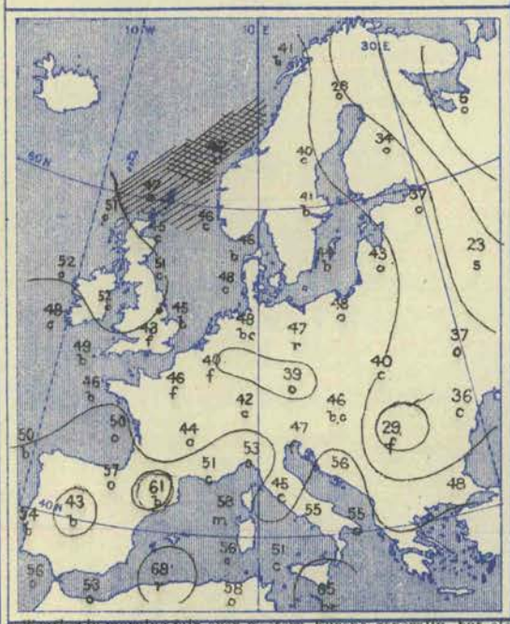


Wind Westerly to South-Westerly over the greater part of our Islands, Scandinavia, Denmark, Germany, and the Netherlands; light to fresh in force generally, but strong to a gale in the west of Norway; Southerly or South-Easterly at most of the Russian stations. Light from the Northward in the extreme south of England, and from North-East or East over the greater part of France, Spain, and Italy; calm or variable in Austria. Subsequently increasing to a gale from the Westward in the Shetlands and also over the Baltic; no important change occurring elsewhere.

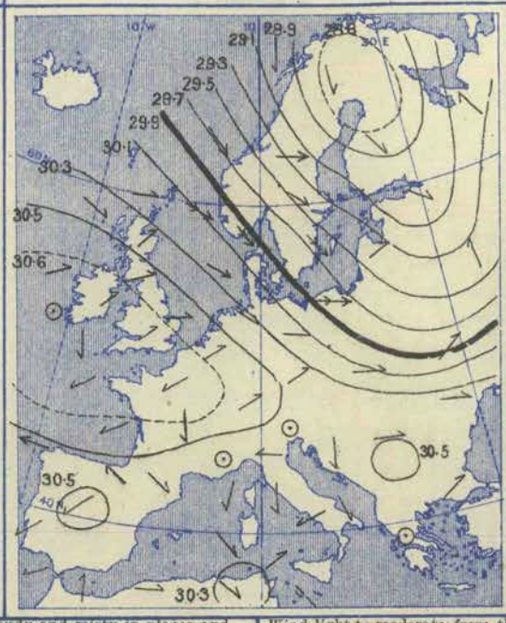
Barometer highest, 30·4 ins. and upwards in an anticyclone lying over the southern parts of our Islands and the greater part of central and southern Europe. Lowest, 29·0 ins. and less in a deep depression lying off the north-west of Norway (gradients rather steep over Scandinavia, the North Sea and the northern parts of our Islands); 29·5 ins. and less in a shallower system over central Russia. Depression in north subsequently moving eastward, and anticyclone extending over the greater part of western Europe.

Saturday, 20th November.

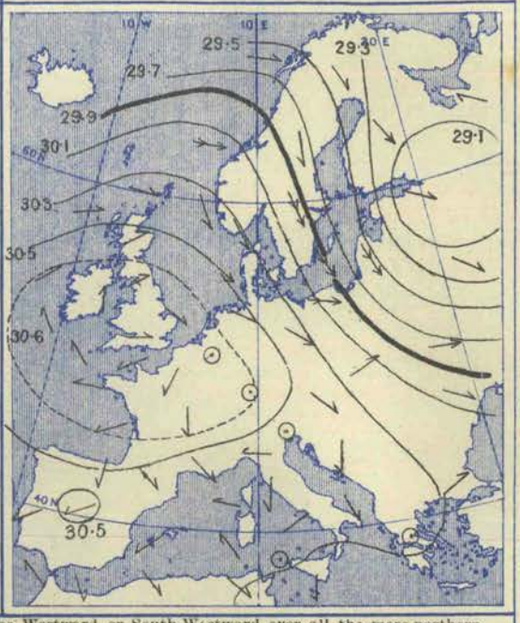
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair over western Europe generally, but cloudy and misty in places and foggy in London, as well as at Brussels, Wiesbaden, Paris, and Belfort. Dull in most parts of Germany, Italy, and Russia, with rain at Berlin, and snow at Moscow and Uleaborg. Fine in Spain and the extreme south of France, as well as in the south of Scandinavia. Slight rain falling later at Sumburgh Head and larger amounts in the west of Norway, but weather over western Europe remaining very dry as a whole.

Temperature risen over England as well as in Sweden, Denmark, and northern Russia, but changed irregularly elsewhere. Morning readings highest, 68° at Algiers, 65° at Malta, 61° at Barcelona, and 59° at Sfax; above 55° at most of the Mediterranean stations, and above 50° in the western and northern parts of the United Kingdom. Lowest, 6° at Archangel, 23° at Moscow, 28° at Haparanda, 31° at Uleaborg, and 34° at Kuopio. Rising during day to 55° and upwards in many parts of Great Britian, to 58° at York, Cambridge and Jersey, and to 59° at Dungeness; exceeding 60° in the South of France and reaching 68° at Perpignan.

Wind light to moderate from the Westward or South-Westward over all the more northern parts of our Islands, but Northerly in the extreme south of England, and North-Easterly or Easterly over the greater part of France, Spain, and Italy. Strong to a gale from the North-Westward or Westward over Scandinavia, Denmark and the Baltic, and moderate from the same quarter in Germany. Light from the South-Westward or Southward over the central and southern parts of Russia. Subsequently becoming calm or variable in the south of England; North-Westerly gale subsiding in the west of Norway.

Barometer highest, 30·6 ins. and upwards over all the more western and southern parts of our Islands and the northern parts of France; 30·0 ins. and upwards in an anticyclone covering nearly the whole of western, central and southern Europe. Lowest, 28·8 ins. and less in a depression over Lapland; gradients steep over the northern and eastern parts of the Continent generally. No important change occurring over western Europe later, but depression in far north moving eastwards.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line bein given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the beginning of the week, when pressure was highest over south-eastern Europe, the weather in the western countries was affected by a rather complex depression which moved south-eastwards across our Islands, the wind in its rear shifting to the Northward with a considerable fall of temperature. During its progress the depression gradually dispersed, but a secondary disturbance which lay over the North Sea on the 14th increased steadily in depth, and moved in an east-north-easterly direction across Scandinavia and northern Russia, the winds over northern Europe blowing a gale from the Westward and North-Westward, with considerable falls of rain or now.

A new anticyclone had in the meantime advanced over Europe from the north-westward, its passage across our Islands being very brisk. By the evening of the 16th its influence had in fact disappeared from our own immediate neighbourhood, and for the next day or two the weather was affected mainly by a large depression which skirted our extreme northern coasts, and which ultimately passed across the north of Scandinavia. The passage of this disturbance was attended by South-Westerly to Westerly winds, moderate to fresh in force in our Islands, but again strong to a gale over northern Europe, with rain or snow over the north-western and northern countries generally. As the depression travelled away Eastwards another anticyclone advanced over western Europe from the Atlantic, the weather in our Islands becoming cloudy with heavy mist or fog in places.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 272.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	8·2	− 4·8	15	− 7	EASTBOURNE	13·7	− 1·3	22	− 2
OSWALDKIRK (Yorkshire)	13·1	+ 1·6	23	+ 3	VENTNOR	13·7	?	22	?
WORKSOP	14·3	+ 2·7	24	+ 5	SOUTHPORT	12·8	?	22	?
THURCASTON (Leicestershire)	16·3	+ 3·3	28	+ 7	COLWYN BAY	16·7	?	28	?
MARGATE	14·4	− 0·8	24	0	TENBY	12·6*	− 2·5	21*	−
WESTBOURNE (Sussex)	15·5*	+ 1·7	25*	+ 2	NEWQUAY				
BRIGHTON	13·5	− 3·1	22	− 4	TORQUAY	15·0*	− 0·2	24*	0
					GUERNSEY	10·8*	− 4·2	17*	− 6

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, 63, VICTORIA STREET, LONDON, S.W. ; R. H. SCOTT, F.R.S., SECRETARY,

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VOL. XIV No. 47.] *Third Series.* WEEK ENDING SATURDAY, NOVEMBER 27TH, 1897. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

DISTRICTS. (See p. 278.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
	°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	54	32	46·8	40·4	43·6	3 above	18	+ 2	4	−13	2148	+218	671	− 40
1. SCOTLAND, EAST	56	27	48·0	39·0	43·5	4 above	23	+ 6	8	−13	2375	+ 58	725	− 31
2. ENGLAND, N.E.	56	33	49·0	39·3	44·2	3 above	27	+ 5	8	− 7	2635	+116	492	−115
3. ENGLAND, EAST	55	26	47·4	34·0	40·7	1 below	15	−10	32	+15	3057	+144	551	−135
4. MIDLAND COUNTIES	55	25	47·7	35·7	41·7	1 above	16	− 8	26	+ 7	2967	+ 84	558	−148
5. ENGLAND, SOUTH	57	28	48·9	39·1	44·0	1 above	26	− 7	8	− 1	3449	+268	305	−214
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	55	31	49·8	43·1	46·5	5 above	32	+10	0	−13	2596*	+143	454*	− 73
7. ENGLAND, N.W.	55	30	49·8	41·1	45·5	3 above	28	+ 3	3	− 7	2882	+192	370	−132
8. ENGLAND, S.W.	55	27	50·4	41·1	45·7	2 above	30	− 7	3	− 3	3277	+277	226	−160
9. IRELAND, NORTH	55	34	49·8	41·3	45·5	3 above	27	+ 5	2	−11	2672	+ 88	410	− 37
10. IRELAND, SOUTH	56	32	51·8	42·0	46·9	3 above	34	+ 1	0	− 9	3170	+223	245	− 97
—CHANNEL ISLANDS	58	34	53·2	44·6	48·9	1 above	48	− 5	0	− 1	3884	+416	68	− 82

Rainfall. Bright Sunshine.

DISTRICTS. (See p. 278.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
		10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts. 0. SCOTLAND, NORTH	6	15	2 more	205	−13	38·8	− 5·1	2	− 4	4	− 7	1216	+182	29	+ 4
1. SCOTLAND, EAST	4	2	5 less	182	+ 3	25·7	− 3·1	8	− 2	15	− 4	1316	+ 78	32	+ 2
2. ENGLAND, N.E.	5	3	3 less	164	− 4	21·5	− 2·3	9	− 2	16	− 4	1400	+152	33	+ 3
3. ENGLAND, EAST	3	3	3 less	155	− 9	20·5	− 3·2	6	− 7	10	−12	1555	+ 78	38	+ 2
4. MIDLAND COUNTIES	3	4	3 less	155	− 6	23·7	− 2·0	6	− 5	11	− 8	1463	+180	35	+ 3
5. ENGLAND, SOUTH	4	4	3 less	147	− 9	22·7	− 3·7	8	− 5	14	− 8	1621	+ 70	39	+ 2
Principal Grazing, &c., Districts. 6. SCOTLAND, WEST	5	8	5 less	197	+11	39·8	− 3·8	6	− 3	11	− 6	1364	+ 21	32	+ 1
7. ENGLAND, N.W.	2	8	0 (average)	175	0	30·4	− 1·1	6	− 4	11	− 6	1471	+125	34	+ 3
8. ENGLAND, S.W.	3	10	0 (average)	183	+ 6	37·1	+ 2·0	3	−11	5	−18	1571*	− 22	38	− 1
9. IRELAND, NORTH	4	10	2 more	208	+ 5	35·4	+ 1·6	10	− 4	18	− 6	1238	+ 18	30	+ 1
10. IRELAND, SOUTH	3	8	0 (average)	195	+11	41·3	+ 6·6	11	− 4	19	− 6	1368	− 18	33	0
— CHANNEL ISLANDS	2	2	7 less	194	+ 6	30·5	+ 0·7	16	+ 4	26	+ 7	1666	−125	42	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather continued fair and dry during the earlier days of the week, although mist or fog was experienced in many localities. By Wednesday, however, unsettled rainy weather had begun to set in in the north and north-west, and these conditions gradually spread southwards to all parts of the Kingdom.

Temperature was again above the mean over the country generally, but was a little below it in England E. The highest of the maxima were recorded either at the commencement or towards the end of the period, and ranged from 58° in the Channel Islands, and 57° in England S., to 54° in Scotland N. The lowest of the minima were registered between the 25th and the 27th, and ranged from 25° over the Midland counties, and 26° in England E., to 32° in Scotland N. and Ireland S., and to 34° in Ireland N. and the Channel Islands.

Rainfall slightly exceeded the mean in Scotland N. and Ireland N., and just equalled it in England N.W. and S.W. and Ireland S. ; in all other parts of the Kingdom there was a deficit.

Bright Sunshine showed a deficiency in all districts excepting the Channel Islands. The percentage of the possible duration ranged from 26 in the Channel Islands, and from 18 to 19 in Ireland, to 5 in England S.W., and to 4 in Scotland N.

Barometer and Wind.—During the first half of the week the distribution of pressure was mainly anticyclonic, with light North-Easterly breezes in the south, and chiefly Westerly winds in the north. After Wednesday, however, the high pressure area gradually gave way, and a small depression moved southwards along our western and south-western coasts. Later on depressions appeared in the north-west and north, and soon spread completely over the Kingdom. With this change the wind became South-Westerly very generally, and increased considerably in force at some of the western stations.

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*This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 277 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		*	*	*	*	*	*	*	*		Inches.	Inches.				
0. SCOTLAND, N	Sumburgh Head	52	32	44·9	37·4	41·2	0·0	8	18	5	0·99	0·00	*	*	*	*
	Stornoway	54	38	47·6	43·0	45·3	+ 4·3	23	0	5	1·27	+ 0·10	3·5	- 5·3	7	-10
	Wick	54	35	46·4	39·9	43·2	+ 3·2	17	6	5	0·74	+ 0·09	*	*	*	*
	Lairg S	52	34	45·6	38·6	42·1	+ 3·1	15	10	7	1·18	+ 0·38	*	*	*	*
	Glencarron S	50	36	46·4	40·0	43·2	+ 4·3	17	6	6	3·09	+ 0·82	*	*	*	*
	Fort Augustus S	52	36	47·6	41·0	44·3	+ 4·1	20	3	6	1·17	+ 0·08	0·7	- 2·3	1	- 5
	Fort William S	53	39	48·9	42·9	45·9	+ 4·6	27	0	6	1·71	- 0·28	2·5	- 3·0	5	- 5
1. SCOTLAND, E.	Nairn	56	34	48·7	40·0	44·4	+ 5·1	25	6	4	0·24	- 0·28	*	*	*	*
	Aberdeen	54	34	48·3	38·9	43·6	+ 3·3	24	9	4	0·11	- 0·68	13·3	+ 1·3	26	+ 4
	Braemar S	51	33	44·8	37·9	41·4	+ 4·9	8	17	2	0·28	- 0·50	2·7†	- 3·5†	5†	- 7†
	Ochtertyre S	54	37	49·3	40·0	44·7	+ 5·3	27	6	5	0·39	- 0·62	*	*	*	*
	Leith	54	37	50·4	43·4	46·9	+ 5·4	34	0	4	0·16	- 0·34	*	*	*	*
	Marchmont S	55	27	46·4	33·7	40·1	+ 1·1	12	32	3	0·26	- 0·59	10·0	- 1·8	19	- 3
2. ENGLAND, N.E.	Alnwick Castle	56	35	51·1	41·3	46·2	+ 5·7	32	2	4	0·37	- 0·41	*	*	*	*
	Durham	54	34	48·9	37·2	43·1	+ 3·0	28	13	5	0·29	- 0·32	9·3	- 2·0	17	- 4
	Shields	53	37	49·4	40·4	44·9	+ 3·7	27	4	5	0·21	- 0·34	*	*	*	*
	Scarborough M	54	35	48·6	39·5	44·1	+ 2·1	25	7	4	0·39	- 0·23	11·7	?	21	?
	York	54	33	47·9	36·0	42·0	+ 1·2	17	17	5	0·22	- 0·26	0·9	+ 7·6	2	-13
	Spurn Head	51	36	43·3	41·3	44·8	+ 2·7	23	2	5	0·43	- 0·07	*	*	*	*
3. ENGLAND, E.	Hillington M	53	28	45·6	34·1	39·9	- 1·0	10	31	2	0·39	- 0·23	3·4	- 8·1	6	-14
	Yarmouth	52	32	47·7	36·6	42·2	+ 0·3	24	15	3	0·26	- 0·41	*	*	*	*
	Geldeston	54	29	47·6	34·7	41·2	- 0·8	16	30	4	0·33	- 0·27	6·1	- 7·6	11	-13
	Cambridge	55	26	48·4	32·1	40·3	- 0·7	18	39	3	0·26	- 0·18	5·8	- 7·8	10	-13
	Rothamsted	53	26	47·5	32·4	40·0	- 0·8	15	38	3	0·24	- 0·36	7·9	- 4·8	14	- 8
4. MIDLAND COUNTIES	Harrogate M															
	Bawtry (Hesley Hall)	55	29	49·3	34·4	41·9	+ 0·9	20	32	4	0·12	- 0·35	*	*	*	*
	Loughborough	54	30	46·0	36·1	41·1	- 0·9	11	24	5	0·23	- 0·25	*	*	*	*
	Stamford (Duddington)	54	25	47·9	34·7	41·3	0·0	17	30	3	0·31	- 0·37	*	*	*	*
	Cheadle M	51	33	46·8	37·4	42·1	+ 2·1	20	13	5	0·58	- 0·07	*	*	*	*
	Shirley (near Solihull)	53	27	48·0	34·1	41·1	- 0·1	17	32	2	0·42	?	*	*	*	*
	Churchstoke M	53	28	47·4	35·9	41·7	+ 1·3	15	25	2	0·50	- 0·26	9·4	- 1·3	17	- 1
	Hereford M	55	32	48·4	37·8	43·1	+ 1·2	25	12	3	0·25	- 0·38	*	*	*	*
	Cirencester	51	30	47·3	35·6	41·5	+ 0·8	15	26	5	0·54	- 0·16	6·2	- 5·5	11	- 9
	Oxford	53	32	48·0	34·9	41·5	- 0·3	17	29	2	0·34	- 0·24	6·9	- 5·1	12	- 9
5. ENGLAND, S.	London	53	28	48·7	36·0	42·4	- 0·1	28	17	3	0·38	- 0·10	1·5†	- 6·3†	3†	-10†
	North Foreland	56	35	48·9	41·0	45·0	+ 1·2	25	3	4	0·54	?	*	*	*	*
	Dungeness	57	34	50·7	39·0	44·9	+ 1·0	33	8	4	0·42	- 0·32	*	*	*	*
	Hastings (St. Leonards)	54	30	48·4	38·4	43·4	- 0·2	25	10	5	0·97	+ 0·25	12·1	- 2·9	21	- 6
	Southampton	54	30	48·8	40·4	44·6	+ 1·3	25	4	4	0·27	- 0·43	4·3	- 8·7	7	-14
	Hurst Castle	53	34	50·1	40 7	45·4	+ 0·5	29	4	4	0·22	- 0·46	*	*	*	*
	Shaftesbury M	51	32	46·9	38·1	42·5	+ 1·8	20	11	2	0·28	- 0·52	*	*	*	*
6. SCOTLAND, W	Laudale (Loch Sunart)	56	41	53·0	47·3	50·2	+ 8·2	57	0	7	1·06	- 1·05	*	*	*	*
	Glasgow	53	40	48·3	42·8	45·6	+ 5·8	25	0	6	0·78	- 0·10	7·2	+ 0·6	14	+ 2
	Ardrossan	53	40	49·9	44·0	47·0	+ 4·4	35	0	4	0·34	- 0·49	*	*	*	*
	Glenlee S	52	31	47·9	39·9	43·9	+ 4·1	22	6	6	0·77	- 0·73	*	*	*	*
	Gilcrux (Cumberland)	51	38	48·4	43·1	45·8	+ 5·6	27	0	4	0·79	?	3·8	?	7	?
	Douglas (Isle of Man)	55	36	51·2	41·6	46·4	+ 2·6	32	1	5	1·16	+ 0·13	6·6	- 7·2	12	-13
7. ENGLAND, N.W.	Stonyhurst	52	36	47·9	40·2	44·1	+ 2·6	22	5	2	1·25	+ 0·24	0·7	- 8·8	1	-15
	Blackpool M	55	31	50·4	40·2	45·3	+ 3·3	31	5	2	0·69	- 0.06	? 3·8	? - 5·2	? 7	? - 9
	Manchester (Prestwich)	52	30	47·6	37·4	42·5	+ 1·3	23	13	2	0·84	+ 0·04	1·5	?	3	?
	Liverpool Obsy. (Bidston)	53	35	49·4	41·1	45·3	+ 2·8	27	3	2	0·50	- 0·15	*	*	*	*
	Llandudno M	54	40	51·5	43·5	47·5	+ 2·8	39	0	2	0·76	+ 0·01	14·2	+ 4·0	25	+ 7
	Holyhead	54	40	52·0	44·0	48·0	+ 2·2	42	0	4	0·82	- 0·06	*	*	*	*
8. ENGLAND, S.W.	Llandovery	54	27	50·7	34·7	42·7	+ 0·9	36	20	3	1·16	- 0·02	*	*	*	*
	Pembroke	54	40	51·1	45·1	48·1	+ 2·1	43	0	3	1·32	+ 0·38	8.2	- 4·8	14	- 8
	Clifton	52	32	48·0	37·6	42·8	+ 0·8	24	12	3	0·81	+ 0·03	*	*	*	*
	Arlington (N. Devon)	53	32	50·4	37.4	43·9	+ 1·4	33	13	2	1·67	+ 0·27	*	*	*	*
	Cullompton M	53	31	49·3	38·5	43·9	+ 0·9	28	10	3	0·24	- 0·56	0·6	-10·4	1	-17
	Falmouth	55	43	52·2	47·6	49·9	+ 2·9	55	0	3	1·56	+ 0·34	2·0	-13·0	3	-22
	Plymouth	54	40	50·5	44·3	47·4	+ 1·7	38	0	2	0·39	- 0·53	0·3	-12·7	0	-21
	Prawle Point	53	40	50·6	43·4	47·0	+ 1·0	35	0	5	0·49	- 0·21	*	*	*	*
9. IRELAND, N.	Malin Head	51	44	49·6	45·6	47·6	+ 4·2	39	0	4	0·75	?	*	*	*	*
	Londonderry	51	40	49·4	43·0	46·2	+ 4·0	29	0	4	1·08	+ 0·12	*	*	*	*
	Edenfel (Omagh)	49	34	47·7	40·4	44·1	+ 4·1	21	4	4	0·90	+ 0·10	*	*	*	*
	Belmullet	53	40	50·9	44·3	47·6	+ 3·4	39	0	4	1·17	- 0·21	*	*	*	*
	Markree Castle	54	36	50·7	39·3	45·0	+ 3·3	32	8	4	1·37	+ 0·47	7·7	- 5·0	14	- 8
	Armagh	55	35	49·8	38·9	44·4	+ 3·2	30	9	4	0·92	+ 0·30	12·2	- 1·2	22	- 2
	Donaghadee	53	35	49·7	41·9	45·8	+ 2·3	27	0	6	0·79	+ 0·17	*	*	*	*
	Edgeworthstown	54	34	50·6	36·6	43·6	+ 2·4	34	15	4	1·15	+ 0·35	*	*	*	*
10. IRELAND, S.	Dublin	55	38	50·9	41·2	46·1	+ 2·1	32	2	3	0·52	+ 0·03	10·8	- 5·2	19	- 9
	Parsonstown	53	35	50·4	39·0	44·7	+ 2·9	32	8	3	1·27	+ 0·52	10·5	- 4·0	19	- 5
	Kilkenny	55	32	51·6	38·4	45·0	+ 1·3	36	10	3	0·85	+ 0·23	*	*	*	*
	Roche's Point	54	42	52·1	45·3	48·7	+ 3·0	47	0	4	0·80	- 0·35	*	*	*	*
	Valencia	56	42	54·0	46·4	50·2	+ 3·4	57	0	4	0·81	- 0·44	10·2	- 3·5	18	- 6
	Killarney	56	32	52·8	42·5	47·7	+ 3·3	40	0	3	0·52	?	*	*	*	*
	Foynes	54	36	50·8	41·4	46·1	+ 1·9	31	2	3	1·07	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	58	45	56·0	47·3	51·7	+ 3·1	68	0	3	0·30	- 0·65	11·7	?	20	?
	Jersey	54	34	50·3	41·9	46·1	- 1·0	29	0	1	0·07	- 0·83	21·6	+ 6·1	36	+11

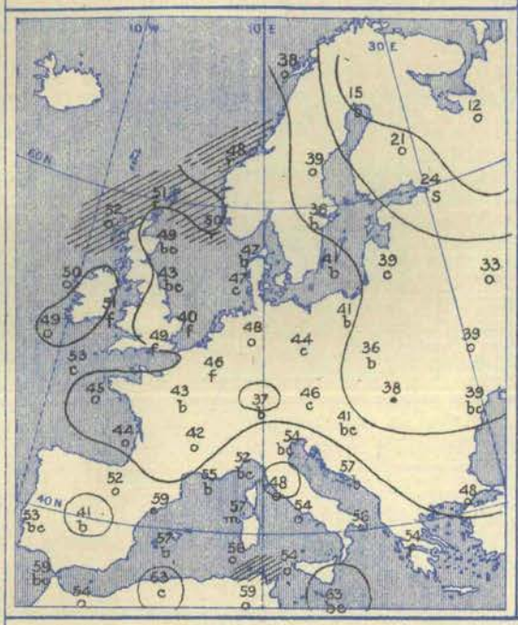
Stations marked M are in connection with the Royal Meteorological Society, and those marked S with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

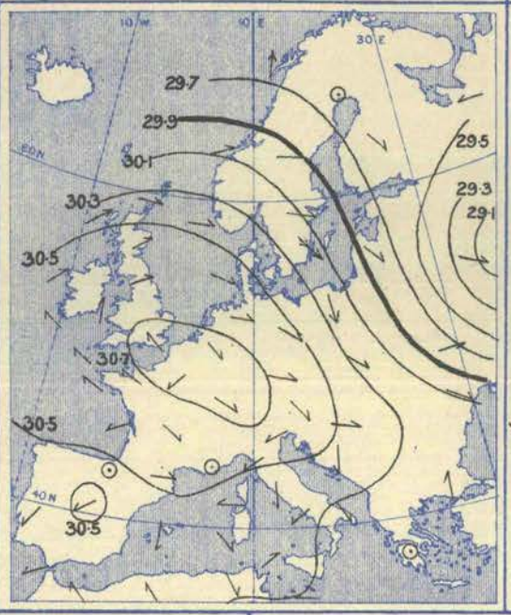
†The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 21st November.

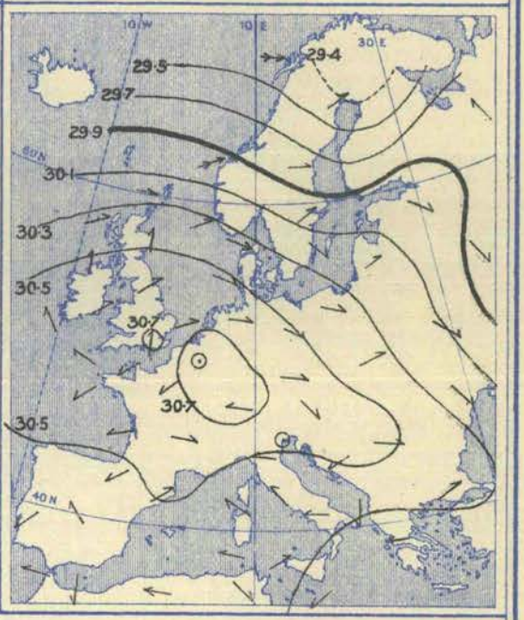
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright at many of the stations on the Baltic shores, and over the north-east of Germany, as well as over the southern and western parts of Continental Europe; dull over the Netherlands and our Islands, with fog at many stations; rainy in the Shetlands and west of Norway, as well as at Copenhagen. Considerable rain falling at Christiansund later; small quantities at some of our own north-western and northern stations; snow in the south of Russia; heavy rain at La Calle; thunder in the south-west of France. Fog continuing prevalent in many places.

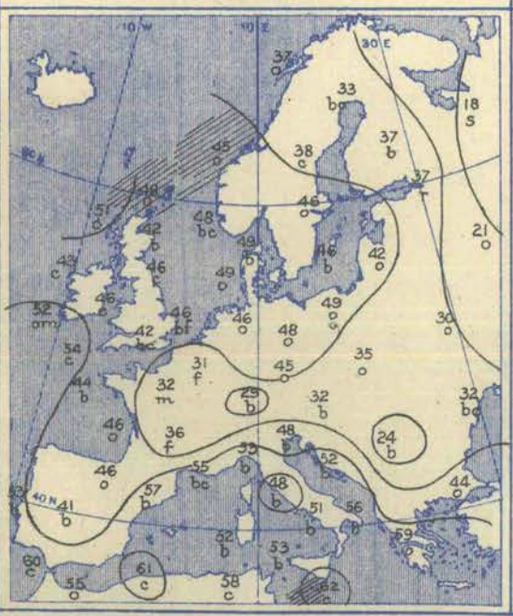
Temperature falling over Russia; changing fitfully in our Islands. Morning readings highest, 63° at Malta and Algiers, 59° at Barcelona, 57° at Lesina, 53° at Scilly, 52° both at Hurst Castle and at Stornoway. Lowest, 12° Fahr. at Archangel, 15° at Uleaborg, 21° at Kuopio, 24° at St. Petersburg, and below 40° over Scandinavia, eastern Germany, and Hungary, as well as at Munich. Rising later to 50° and more all over our Islands, to 56° at Valencia, 57° at Scilly and Dungeness, to 68° at Nice, 70° at Algiers, and 75° at Cagliari.

Wind light and anticyclonic over Germany, France, Spain, and the British Islands; South Westerly to Westerly and moderate over Scandinavia, and from North-West to North over Germany and western Russia, and blowing a gale at some Baltic stations; Westerly over the south of Russia; South-Westerly at Odessa and Kharkov.

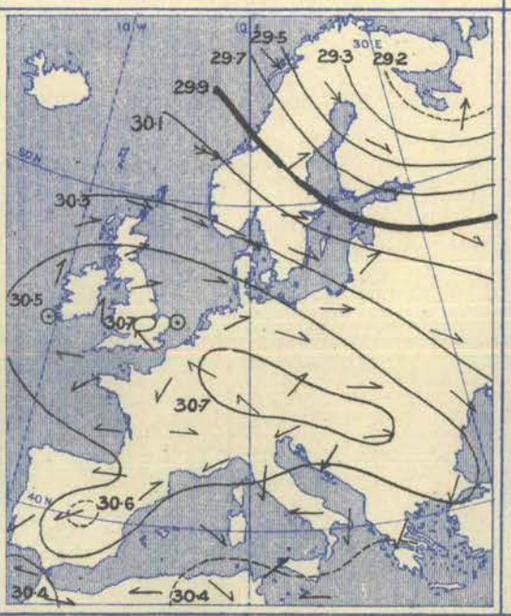
Barometer highest, 30·7 ins. and more to 30·4 ins. in a large anticyclone covering all the western countries. Lowest, about 29·1 ins. in the central part of a well-marked depression lying near Moscow. Gradients steep for Northerly winds over all the western and southern parts of Russia. This depression moving south-eastwards later, but a new one appearing over Lapland and advancing south-eastwards.

Monday, 22nd November.

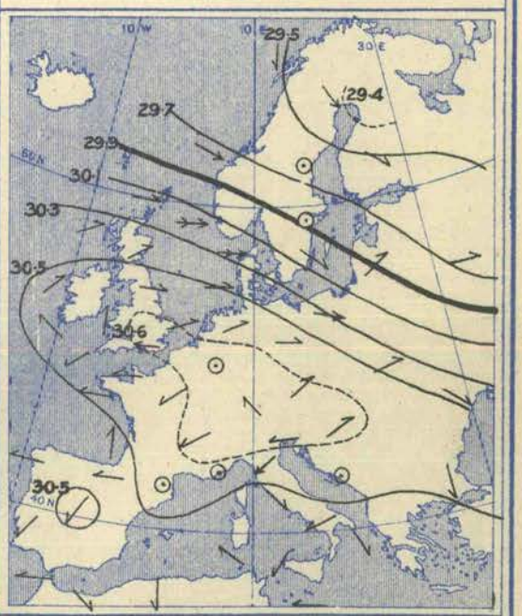
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair and very quiet over central and southern Europe, France, and in the British Islands—clear and bright in many places, dull or very foggy in the remainder. Very changeable and unsettled over northern Europe, with rain in several places, snow in some, but clear sky, nevertheless, in many localities. Rain falling later in various parts of Scandinavia and the north of Scotland, the largest amounts being 0·6 in. at Christiansund, and 0·3 in. at Sumburgh Head and Wick. A fall of 0·7 in. at Sfax also.

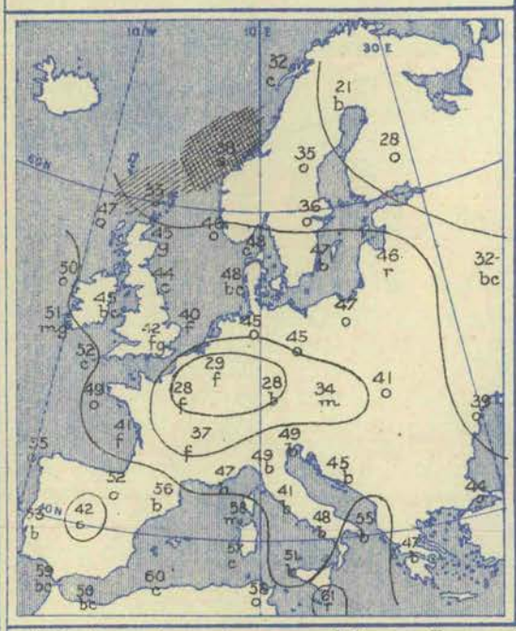
Temperature fallen considerably over Great Britain, France, western and southern Germany, and the southern half of Russia; risen over northern Europe and the Baltic. Morning readings highest, 62° at Malta, 61° at Algiers, and above 50° in many parts of southern Europe, as well as on our own south-western and extreme northern coasts. Lowest, (1) 18° at Archangel, 21° at Moscow, 30° to 32° over the south of Russia; (2) 24° at Hermanstadt, 29° at Munich, 31° at Brussels, 32° at Paris; (3) 34° at Oxford, 36° at York. Rising in our Islands later, and touching 57° at Scilly, and 55° to 50° over the Kingdom generally; reaching 70° at Croisette, and 72° at Cagliari.

Wind (1) very light and anticyclonic over central and western Europe, including Ireland and England; (2) Westerly and moderate in the north of Scotland, and Westerly to North-Westerly over northern Europe, and blowing hard on the Norwegian coast; (3) Easterly and light over the Bay of Biscay and the greater part of the Mediterranean. The Westerly gales becoming more general over northern Europe later; very little change elsewhere.

Barometer highest, 30·7 ins. and more over the west and south of Germany, and exceeding 30·4 ins. over central, western, and southern Europe generally. Lowest below 29·2 ins. in a large depression over the White Sea, the gradients for Westerly winds being steep over the northern countries generally. Further disturbances approaching Scandinavia later from the westward.

Tuesday, 23rd November.

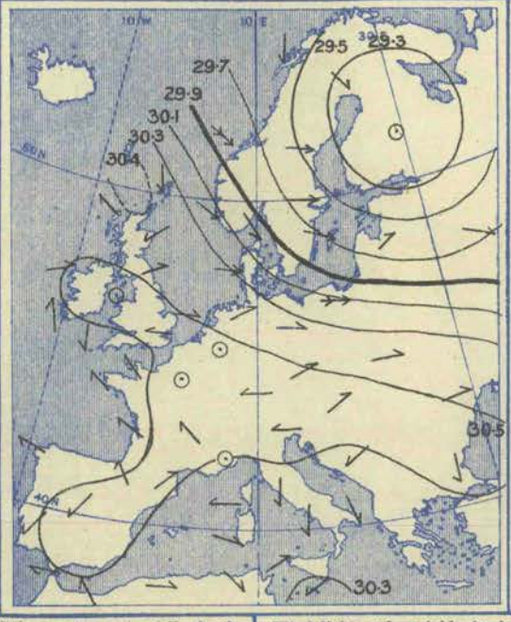
Temperature and Weather. 8 a.m.

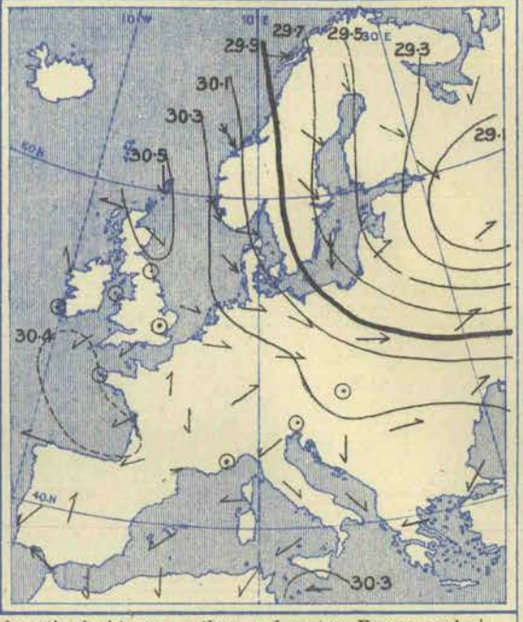


Weather in morning very foggy over south Germany, France, and the greater parts of England and Ireland; fine and bright over the Mediterranean and south-western Europe; dull and unsettled on our own south-western coasts, as well as over Scandinavia and north Germany, with rain in some places; snow in the north-west of Norway. Some rain later over the north of our Islands and north Germany; heavy wet dew and fog over the south-east of England.

Temperature fallen decidedly over central and northern Europe, as well as over the north Midland counties of England. Morning readings highest, 61° at Malta, 60° at Algiers, 55° at Corunna, 52° at Scilly, 50° in the north-west of Ireland. Lowest, (1) 21° at Uleaborg, 22° at Haparanda, 28° at Kuopio, 32° at Moscow; (2) 28° at Munich and Paris, 29° at Brussels, 32° at Wiesbaden; (3) 32° at Loughborough, 35° at York, 36° at Parsonstown. Rising later to 50° and more over many parts of Ireland and the south of Scotland, but not touching 40° at Loughborough, Oxford, Wiesbaden or Paris, nor exceeding 66° at any of the Italian stations.

Barometer and Wind. 8 a.m. and 6 p.m.



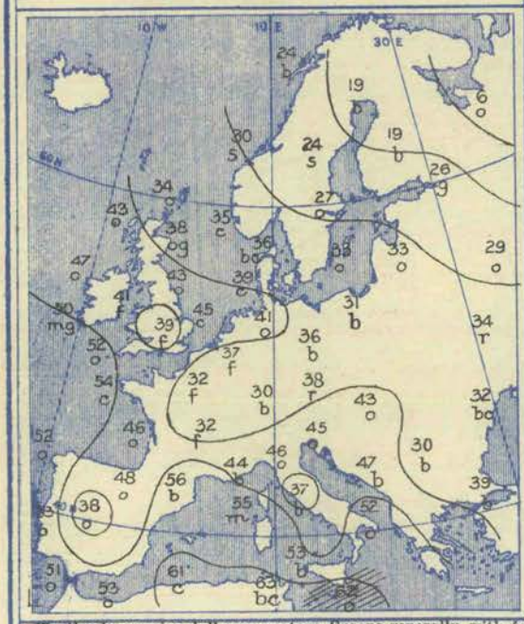


Wind light and variable (mainly anticyclonic) over southern and western Europe; cyclonic North-Westerly over Scandinavia, and Westerly over the Baltic, and blowing hard in several places. Becoming more Northerly over the Baltic later, and continuing to blow hard; very little change in our Islands.

Barometer highest, 30·5 ins. and more to 30·4 ins. over the south-eastern and western countries generally—including England and Ireland. Lowest, below 29·3 ins. in a well-marked depression over Finland. Gradients steep for North-Westerly winds over Scandinavia and the Baltic. Rising later over Norway and Scotland; falling fast over central Russia.

Wednesday, 24th November.

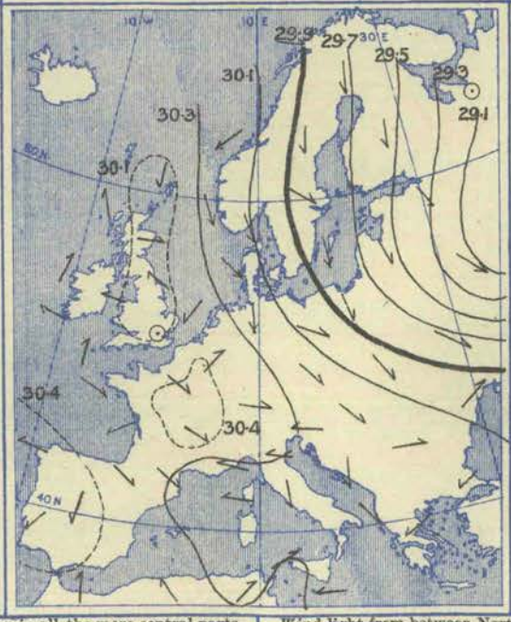
Temperature and Weather. 8 a.m.

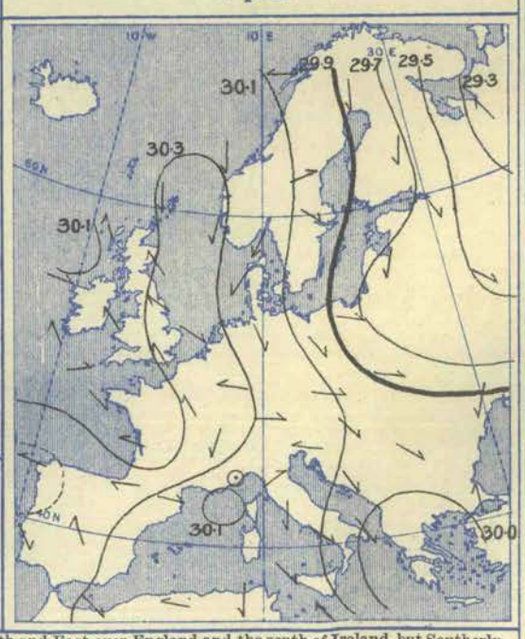


Weather in morning dull over western Europe generally, with fog in all the more central parts of England and France, and also in Belgium. Fine in Italy, Austria, and the extreme south of France, as well as in the south of Norway; dull in Germany and Russia, with rain at Prague and Kiev, and snow at St. Petersburg, as well as at Christiansund. Rain setting in later at all our more western stations, and extending in a less degree to most other parts of our Islands and their immediate neighbourhood. Considerable quantities in some parts of Hungary also, and at La Calle.

Temperature risen in the eastern parts of England and Ireland, as well as in the west and north of France; fallen elsewhere. Morning readings highest, 63° at Tunis, 62° at Malta, and 61° at Algiers; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, 6° at Archangel, 19° at Haparanda and Kuopio, and 24° at Bodö and Hernösand; below the freezing point over northern Europe generally, as well as in the east of France. Daily maxima below 45° in many parts of Great Britain, but thermometer exceeding 50° in Ireland. Rising to 64° at Perpignan and Lisbon, and 70° at Algiers.

Barometer and Wind. 8 a.m. and 6 p.m.





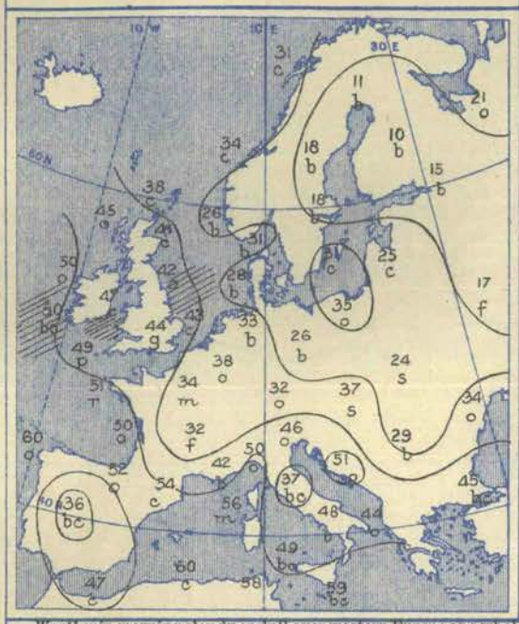
Wind light from between North and East over England and the south of Ireland, but Southerly or South-Easterly on our extreme north-west coasts, and variable in the north-east of Scotland. Variable over France and northern Italy; Northerly to Easterly over the Spanish Peninsula. Northerly or North-Westerly over northern and central Europe generally, and very strong in force in Denmark and the south of Scandinavia; Westerly in Austria, South-Westerly in the south of Russia. Shifting later to the South-Eastward in nearly all parts of our Islands, and freshening somewhat in the north of Ireland.

Barometer highest, 30·4 ins. and upwards in three areas, one lying over Great Britain, another over Belgium and central France, and the third over the Spanish Peninsula; 30·2 ins. and upwards in an anticyclone embracing nearly the whole of western and southern Europe. Lowest, 29·1 ins. and less in a large depression over the northern parts of Russia. Anticyclone partially giving way later, and complex, but shallow, depression appearing off our extreme western coasts; barometer falling over western Europe generally.

Thursday, 25th November.

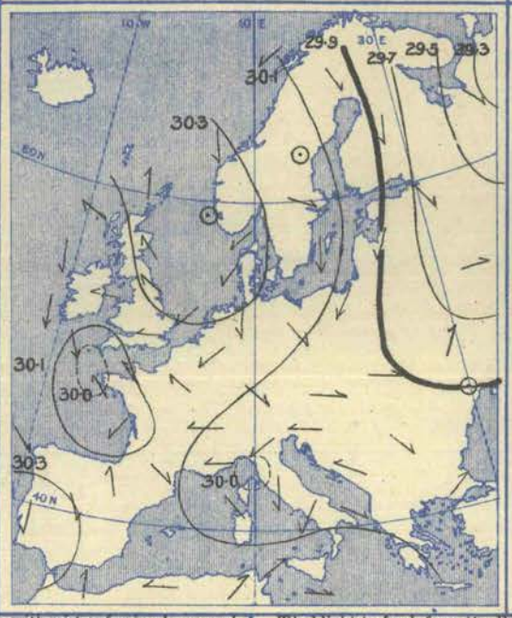
Temperature and Weather.

8 a.m.

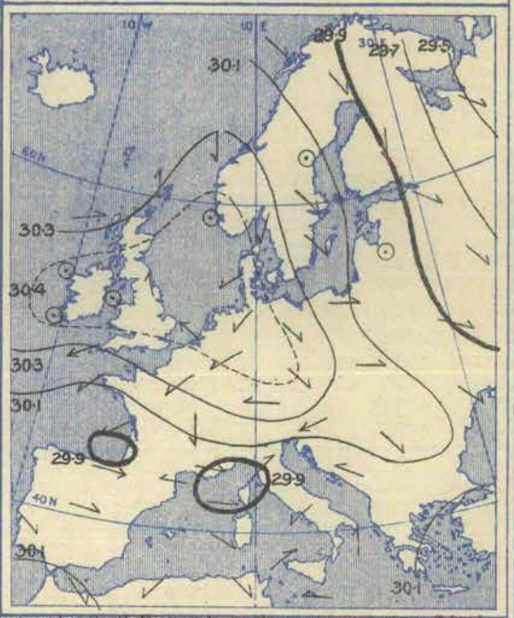


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over western Europe as a whole, with mist or fog in places, and with showers at several of our own western and southern stations. Fine over the northern and also over the southern parts of the Continent, but dull in many parts of Austria and also over the southern parts of Russia and Germany, with snow at Vienna and Lemberg. Improvement taking place later in our Islands, but heavy rain falling in the west of France and in Spain, as well as at Lesina, smaller quantities in Italy.

Temperature risen in our Islands, France and northern Italy, but fallen elsewhere. Morning readings highest, 60° at Corunna and Algiers, 59° at Malta, and 58° at Tunis; above 50° at several of the Mediterranean and Spanish coast stations. Lowest, 10° at Kuopio, 11° at Haparanda, 12° at Uleaborg, and 15° at St. Petersburg, below the freezing point over northern, central, and eastern Europe generally. Rising during day to 50°, or a little above it on many parts of our own western coasts and also in London, exceeding 55° in the south of France, and reaching 62° at Perpignan, 68° at Palermo, and 73° at Tunis. Sharp frost occurring over the inland parts of England at night.

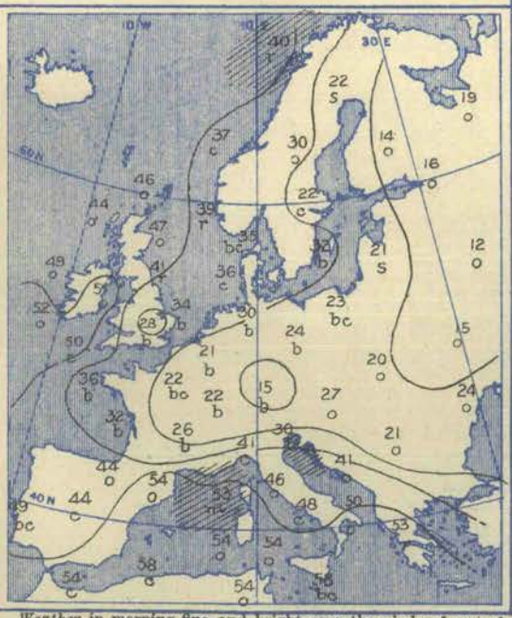
Wind light to fresh from the Eastward or South-Eastward over the greater part of our Islands and France; fresh to strong from the Northward or North-Westward on our extreme south-west coasts, and light from the same quarters over the Spanish Peninsula. Northerly or North-Westerly over northern and central Europe generally, and strong in force at some of the Baltic stations; calm in the south of Russia; variable in Italy. Subsequently veering to the Eastward on our south-west coasts, and falling light, shifting to the South-West in the north of Scotland.

Barometer highest, 30·3 ins. and upwards in an anticyclone lying over the North Sea and the neighbouring parts of our Islands and the Continent, as well as in another system over the Spanish Peninsula. Lowest, 29·4 ins. and less in a depression moving eastwards across northern Russia; 30·0 ins. and less in a small shallow disturbance at the mouth of the English Channel. Latter disturbance subsequently moving away to the southward and anticyclone spreading over the whole of the United Kingdom.

Friday, 26th November.

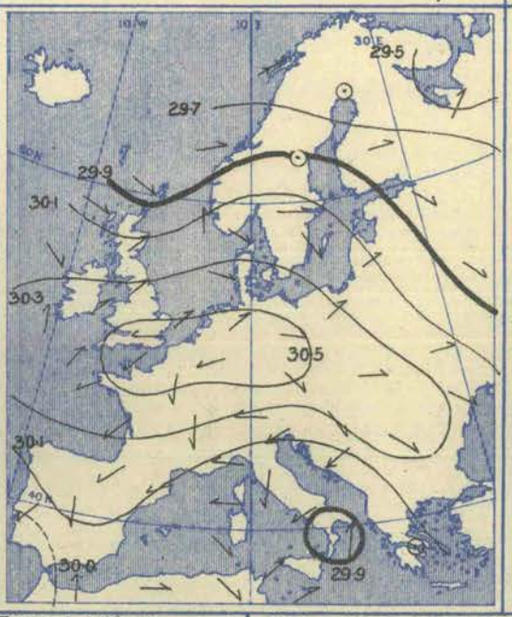
Temperature and Weather.

8 a.m.

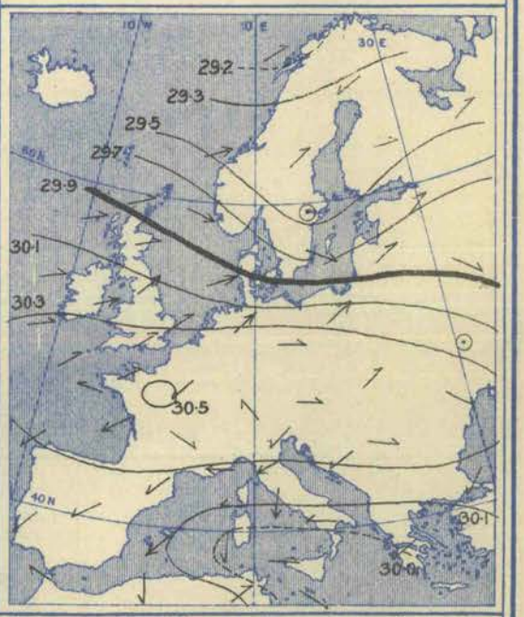


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright over the whole of central Europe, including the west of France, and the south-eastern portion of England, cloudy or overcast elsewhere; raining in several parts of the British Islands and Norway; snowing at Haparanda, Memel, and Breslau, as well as at Turin; rain at Patras. Rain falling later in all parts of our Islands, Denmark, the Netherlands, and north Germany, the falls in the west and north-west of the British Islands being considerable; snow in Sweden and at Cuxhaven. Cirrus clouds coming very rapidly from north-west over the southern parts of England.

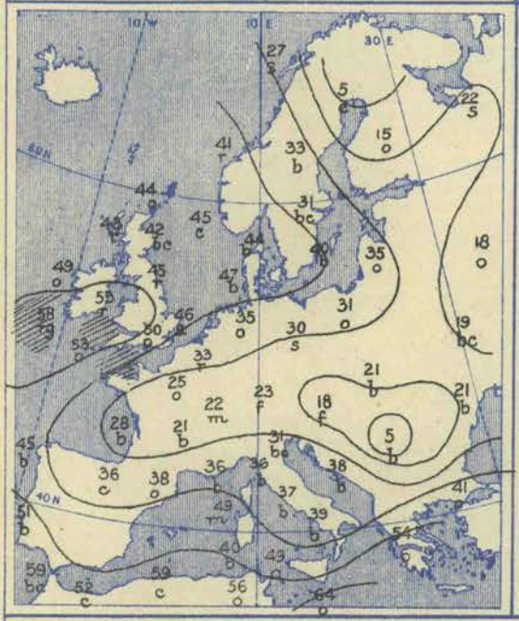
Temperature changing very fitfully, fallen rapidly over the south-east of England, and in many parts of France and Germany. Morning readings highest, 58° at Malta and Algiers, 54° at Barcelona, 53° at Athens and Sanguinaire, 52° at Valencia (Ireland), 51° at Holyhead. Lowest, (1) 12° at Moscow, 14° at Kuopio, 15° at Kiev, and much below the freezing point over the inland parts of Continental Europe generally; (2) at Cambridge and in London, 33° at Oxford and Loughborough. Rising later—rapidly over England, and decidedly over the northern and western countries generally.

Wind mainly Easterly to Northerly over southern Europe, and blowing strongly over the Adriatic; (2) light and anticyclonic over north Germany, the Netherlands, the north of France, and the south-east of England; (3) very variable (cyclonic North-West to South-West) over the greater part of the British Islands and Norway. Backing to West or South-West in Scotland later, and a cyclonic South-Westerly breeze spreading all over England and the Channel.

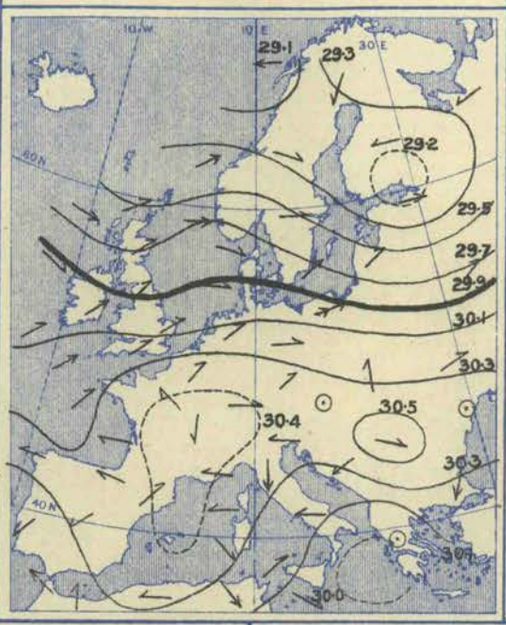
Barometer highest, 30·6 ins. at Brussels, and exceeding 30·3 ins. over Ireland, England, France, Germany, and Austria-Hungary. Lowest, (1) 29·5 ins. and less over the White Sea and the Kola Peninsula, and below 29·6 ins. over Lapland generally; (2) 29·9 ins. to 30·0 ins. over the Mediterranean and Adriatic. Gradients steep off the west of Norway and over the south-east of France, and north of Italy. Falling briskly later over the British Islands, rapidly over Scandinavia.

Saturday, 27th November.

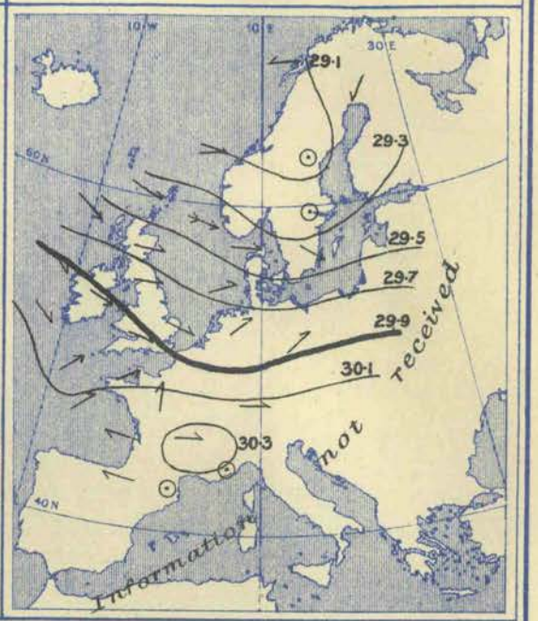
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over south-western and southern Europe, and also over Sweden; dull over the central countries; very rainy and unsettled in the north-west, with snow at Bodö and St. Petersburg. Rain falling later in considerable quantities, both over our Islands and north-western Europe; snow over Caithness, and appearance becoming very unsettled and rain-like over the north-western countries generally, but remaining fine and bright in the south-west and south.

Temperature risen very rapidly over England, the North Sea, and the Baltic; fallen fast over the Mediterranean and south-eastern Europe. Morning readings highest, 64° at Malta, 59° at Algiers and San Fernando, 54° at Patras, 54° to 50° over the south-western half of our Islands. Lowest, (1) 5° at Haparanda, 15° at Knopio, 18° at Moscow; (2) 5° at Hermanstadt, 10° at Kharkov, 16° at Buda Pesth, 18° at Prague, 21° at Lyons, 25° at Paris. Rising decidedly over France later, and touching 54° over the greater part of Ireland and England; beginning to fall fast in Scotland.

Wind light to moderate in force, and anticylonic over the south-western, southern, and south-eastern countries of Europe generally. Cyclonic from between South-West and North-West over all the northern countries, and freshening in force at many stations. Becoming strong from North-West on our north-western coasts later, but remaining light to moderate or fresh at our southern stations.

Barometer in morning highest, 30·59 ins. at Hermanstadt, and exceeding 30·2 ins. in a complex anticyclonic system covering the whole of the southern countries of Continental Europe. Lowest (1) below 29·1 ins. over Finmark, below 29·2 ins. over the Gulf of Finland, and below 29·6 ins. over the extreme north of Scotland; (2) below 30·0 ins. over the western part of Greece and neighbouring parts of the Mediterranean. Falling fast over Scandinavia later; inclined to rise over the west of our Islands.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line bein given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⟶⟶ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the first half of this week, while anticyclonic conditions were still prevalent over the British Islands and western Europe, large and deep depressions advanced over northern Europe from the north-westward, and travelled thence to central Russia. The central area of the first was over the White Sea at 8 a.m. on Monday, but on Tuesday another and deeper disturbance had reached Finland, and at 6 p.m. was found somewhat to the northward of Moscow. After Wednesday, however, the anticyclone over the western countries began to give way, and to move southwards, and gradually cyclonic conditions, with South-Westerly to North-Westerly winds spread over the north-western countries from the Northward, accompanied by very great changes of temperature, and by more or less continuous falls of rain.

At the close of the week the general condition was very unsettled, but a rise of the barometer at our extreme western stations on Saturday evening seemed to show that some improvement was probable.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 278.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	5·8	− 4·8	11	− 9	EASTBOURNE	12·7	− 0·3	22	− 1
OSWALDKIRK (Yorkshire)	12·3	+ 1·8	22	+ 3	VENTNOR	8·5	?	15	?
WORKSOP	7·8	− 2·2	14	− 4	SOUTHPORT	5·3	?	10	?
THURCASTON (Leicestershire)	0·0	−11·0	0	−19	COLWYN BAY	10·2	?	18	?
MARGATE	9·1	− 4·6	16	− 6	TENBY	5·8*	− 7·2	10*	−12
WESTBOURNE (Sussex)	7·0*	− 5·0	12*	− 8	NEWQUAY	4·4	−11·6	7	−20
BRIGHTON	7·5	− 6·0	13	−10	TORQUAY	1·8*	−11·7	3*	−20
					GUERNSEY	13·8*	+ 0·9	23*	+ 3

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder.

WYMAN & SONS, LTD., LITH., 63, CARTER LANE.

WEEKLY WEATHER REPORT.

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VOL. XIV No. 48.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 4TH, 1897. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 284.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	47	25	41·8	32·2	37·2	2 below	0	−13	34	+16	2148	+205	705	− 24
	1. SCOTLAND, EAST	47	19	41·1	30·3	35·9	3 below	0	−14	43	+20	2375	+ 44	768	− 11
	2. ENGLAND, N.E.	50	29	43·8	33·5	38·9	1 below	5	−13	33	+16	2640	+103	525	− 99
	3. ENGLAND, EAST	52	20	43·8	32·8	38·5	2 below	5	−15	35	+15	3062	+129	586	−120
	4. MIDLAND COUNTIES	52	23	42·8	31·8	37·6	3 below	2	−18	38	+17	2969	+ 66	596	−131
	5. ENGLAND, SOUTH	53	26	45·7	34·9	40·5	2 below	10	−19	29	+19	3459	+249	334	− 195
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	24	43·8	33·6	38·9	2 below	5	−14	32	+17	2601	+129	486	− 56
	7. ENGLAND, N.W.	51	26	44·2	35·4	40·0	2 below	6	−15	26	+14	2888	+177	396	−118
	8. ENGLAND, S.W.	54	21	47·0	35·3	41·4	2 below	14	−18	29	+22	3291	+259	255	−138
	9. IRELAND, NORTH	52	26	45·6	34·8	40·4	1 below	10	− 9	29	+15	2682	+ 79	439	− 22
	10. IRELAND, SOUTH	53	26	48·1	36·4	42·5	1 below	27	− 2	16	+ 6	3197	+221	261	− 91
	—CHANNEL ISLANDS	55	37	50·2	42·0	46·3	1 below	30	−17	0	− 2	3914	+399	68	− 84

Rainfall.

	DISTRICTS. (See p. 284.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	5	12	1 less	210	−13	40·0	− 5·2
	1. SCOTLAND, EAST	5	9	1 more	187	+ 4	26·6	− 2·9
	2. ENGLAND, N.E.	6	10	4 more	170	− 3	22·6*	− 1·8
	3. ENGLAND, EAST	5	7	1 more	160	− 9	21·2	− 3·0
	4. MIDLAND COUNTIES	5	8	2 more	160	− 5	24·5	− 1·8
	5. ENGLAND, SOUTH	4	6	1 less	151	− 9	23·3	− 3·8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	10	3 less	202	+11	40·8	− 4·1
	7. ENGLAND, N.W.	6	29	21 more	181	+ 2	33·3	+ 1·0
	8. ENGLAND, S.W.	4	8	2 less	187	+ 5	37·9	+ 1·8
	9. IRELAND, NORTH	5	11	3 more	213	+ 5	36·5	+ 1·8
	10. IRELAND, SOUTH	5	11	3 more	200	+12	42·4	+ 6·8
	— CHANNEL ISLANDS	5	12	3 more	199	+ 6	31·7	+ 1·0

Bright Sunshine.

	DISTRICTS. (See p. 284.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	8	+ 4	17	+ 8	1224	+185	29	+ 4
	1. SCOTLAND, EAST	10	+ 1	20	+ 3	1326	+ 80	31	+ 1
	2. ENGLAND, N.E.	11	+ 3	21	+ 5	1411	+154	33	+ 3
	3. ENGLAND, EAST	13	+ 2	24	+ 3	1568	+ 80	37	+ 1
	4. MIDLAND COUNTIES	15	+ 5	26	+ 8	1478	+135	35	+ 3
	5. ENGLAND, SOUTH	20	+ 9	36	+15	1641	+ 79	39	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	16	+ 9	30	+17	1380	+ 30	32	+ 1
	7. ENGLAND, N.W.	12	+ 6	23	+10	1483	+131	34	+ 3
	8. ENGLAND, S.W.	18	+ 6	32	+11	1589	− 16	38	0
	9. IRELAND, NORTH	17	+ 5	32	+10	1255	+ 23	30	+ 1
	10. IRELAND, SOUTH	19	+ 6	34	+10	1387	− 12	33	0
	— CHANNEL ISLANDS	13	− 4	23	− 6	1679	−129	41	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the difference from the mean " in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was very unsettled and squally during the earlier half of the period, with considerable falls of cold rain or sleet in all the northern parts of the Kingdom, and of rain or hail and occasional sleet elsewhere. The rainfall was especially heavy in the north-west of England and North Wales. Towards the end of the week the conditions became finer and drier over the more southern districts, but continued changeable, with frequent rain elsewhere.

Temperature was below the mean, the deficit ranging from 1° in Ireland, the Channel Islands, and England N.E., to 3° in Scotland E. and the Midland counties. The highest of the maxima were recorded during the earlier part of the week, and ranged from 55° in the Channel Islands, and 54° in England S.W., to 47° in Scotland N. and E. The lowest of the minima were registered either on December 3rd or 4th, and ranged from 19° in Scotland E. (at Braemar), and 20° in England E. (at Rothamsted), to 29° in England N.E., and to 37° in the Channel Islands.

Rainfall was rather less than the mean in Scotland N. and W., as well as in England S. and S.W., but more in all other districts, In England N.W. the fall was nearly four times as much as the mean. The greatest aggregate falls for the week at any individual stations were 3·21 ins. at Llandudno, and 3·12 ins. at Manchester.

Bright Sunshine exceeded the mean in all districts except the Channel Islands. The percentage of the possible duration ranged from 36 in England S., and 34 in Ireland S., to 20 in Scotland E., and to 17 in Scotland N.

Barometer and Wind.—At the commencement of the period a deep depression appeared off the north of Scotland and travelled south-eastwards over the North Sea, causing fresh to whole gales at first from the Westward, and afterwards from the North-Westward or Northward in all parts of the Kingdom. This depression was followed by another which reached the north of Scotland on November 30th. This system spread southwards and occasioned further gales from the Westward on our south coasts, while on December 2nd when the disturbance passed away to the eastward a brisk rise of the barometer took place, and the wind increased to a gale from the Northward on the east coast of Kent. During the latter days of the week an anticyclone passed over our more southern districts from the Atlantic, but by the end of the period depressions had again appeared over our western and northern coasts.

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*This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 283 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	46	30	41·6	33·4	37·7	− 2·7	0	30	5	1·08	+ 0·08	*	*	*	*
	Stornoway	47	32	43·0	34·6	39·0	− 1·4	3	28	7	1·94	+ 0·73	8·7	+ 1·8	19	+ 4
	Wick §	45	29	42·1	32·7	37·6	− 2·0	0	34	6	0·53	− 0·15	*	*	*	*
	Lairg §	44	25	40·9	28·0	34·7	− 3·5	0	51	4	0·83	+ 0·03	*	*	*	*
	Glencarron §	44	29	41·0	31·8	36·6	− 1·6	0	38	5	1·29	− 0·97	*	*	*	*
	Fort Augustus §	44	29	41·6	31·9	36·9	− 2·4	0	36	5	1·25	+ 0·15	4·8	+ 2·6	10	+ 5
	Fort William §	46	29	42·5	32·8	37·8	− 2·7	1	34	4	1·33	− 0·70	10·9	+ 7·1	22	+15
1. SCOTLAND, E.	Nairn	44	28	41·9	31·7	37·0	− 1·6	0	35	5	1·04	+ 0·54	*	*	*	*
	Aberdeen	44	29	40·0	31·3	35·8	− 3·3	0	43	6	1·02	+ 0·23	18·8	+ 8·6	38	+18
	Braemar §	38	19	36·7	25·8	31·5	− 4·4	0	74	3	0·60	− 0·11	4·2†	− 1·3†	9†	− 2†
	Ochtertyre §	45	27	42·9	30·0	36·7	− 1·7	3	44	5	0·95	− 0·05	*	*	*	*
	Leith §	47	28	44·1	32·9	38·7	− 1·7	6	35	4	0·55	+ 0·05	*	*	*	*
	Marchmont §	?	?	?	?	?	?	?	?	7	0·94	+ 0·12	11·0	+ 0·8	22	+ 2
2. ENGLAND, N.E.	Alnwick Castle	50	31	46·9	33·3	40·4	+ 0·5	14	36	7	1·08	+ 0·30	*	*	*	*
	Durham	47	29	41·9	31·6	37·0	− 2·5	0	35	7	0·69	+ 0·09	12·2	+ 2·0	23	+ 3
	Shields	48	32	44·1	33·7	39·1	− 0·9	6	32	6	1·04	+ 0·49	*	*	*	*
	Scarborough 𝔐	50	31	42·7	33·3	38·2	− 2·9	2	32	5	0·85	+ 0·24	8·7	?	16	?
	York	49	30	42·6	32·6	37·8	− 2·2	2	35	5	0·98	+ 0·50	11·7	+ 4·7	22	+ 8
	Spurn Head	48	34	44·7	36·7	40·9	+ 0·2	8	22	6	1·43	+ 0·94	*	*	*	*
3. ENGLAND, E.	Hillington 𝔐	50	25	42·7	32·1	37·6	− 2·4	2	37	5	0·99	+ 0·38	10·0	− 0·3	19	0
	Yarmouth	48	30	43·6	33·9	38·9	− 1·4	4	31	5	0·85	+ 0·21	*	*	*	*
	Geldeston	51	30	45·0	34·0	39·7	− 1·2	8	32	6	0·84	+ 0·26	11·8	− 0·5	21	− 2
	Cambridge	52	25	44·4	32·3	38·6	− 1·4	7	37	5	0·32	− 0·10	12·7	+ 0·8	23	+ 1
	Rothamsted	51	20	43·4	31·7	37·8	− 2·2	4	39	5	0·39	− 0·19	17·8	+ 7·0	32	+12
4. MIDLAND COUNTIES	Harrogate 𝔐															
	Bawtry (Hesley Hall)	52	28	42·3	32·4	37·6	− 2·6	1	36	4	1·38	+ 0·91	*	*	*	*
	Loughborough	51	27	42·4	32·3	37·6	− 3·5	1	36	6	1·18	+ 0·70	*	*	*	*
	Stamford (Duddington)	51	23	42·4	31·3	37·1	− 3·1	1	39	7	0·82	+ 0·17	*	*	*	*
	Cheadle 𝔐	49	29	40·5	30·7	35·8	− 3·3	0	43	6	1·75	+ 1·11	*	*	*	*
	Shirley (near Solihull)	50	27	41·9	32·0	37·2	− 3·2	0	34	6	0·48	?	*	*	*	*
	Churchstoke 𝔐	51	26	43·4	31·5	37·7	− 2·3	4	39	5	0·77	+ 0·05	17.5	+ 7·9	32	+15
	Hereford 𝔐	52	28	45·7	32·8	39·5	− 1·6	10	37	4	0·26	− 0·35	*	*	*	*
	Cirencester	51	24	42·9	30·9	37·1	− 2·9	3	41	5	0·38	− 0·29	15·8	+ 5·8	29	+11
	Oxford	51	23	44·1	32·6	38·6	− 2.2	6	36	5	0·38	− 0·18	18·3	+ 8·1	33	+13
5. ENGLAND, S.	London	53	26	44·9	34·6	40·0	− 1·4	8	30	4	0·13	− 0·32	11·8†	+ 5·7†	21†	+ 9†
	North Foreland	51	32	44·6	36·3	40·6	− 2·5	7	23	6	0·92	?	*	*	*	*
	Dungeness	53	28	47·6	35·4	41·7	− 1·2	16	28	6	0·67	− 0·04	*	*	*	*
	Hastings (St. Leonards)	52	30	45·3	34·0	39·9	− 2·9	9	32	4	0·55	− 0·14	22·7	+ 8·8	41	+18
	Southampton	53	26	46·5	33·4	40·2	− 2·2	13	35	3	0·54	− 0·16	26·1	+14.1	47	+26
	Hurst Castle	53	27	47·6	37·3	42·7	− 1·3	25	13	3	0·37	− 0·28	*	*	*	*
	Shaftesbury 𝔐	50	29	43·3	33·4	38·6	− 0·9	4	33	3	0·68	+ 0·09	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	49	26	44·6	31·7	38·3	− 3·0	7	39	4	1·42	− 0·70	*	*	*	*
	Glasgow	46	31	42·3	34·7	38·7	+ 0·1	1	27	5	0·58	− 0·32	13·5	+ 9·5	27	+ 8
	Ardrossan	48	32	44·9	35·9	40·6	− 1·4	8	25	5	0·53	− 0·28	*	*	*	*
	Glenlee §	47	24	42·4	30·4	36·6	− 2·5	1	42	5	1·54	+ 0.04	*	*	*	*
	Gilcrux (Cumberland)	47	29	42·5	33·8	38·3	− 1·4	1	30	6	1·04	?	13·2	?	25	?
	Douglas (Isle of Man)	51	29	46·3	35·3	41·0	− 2·2	12	28	6	0·91	− 0·11	20·0	+ 7·8	38	+15
7. ENGLAND, N.W.	Stonyhurst	47	30	41·3	32·9	37·3	− 3·1	0	33	5	2·75	+ 1·73	14·1	+ 5·8	27	+12
	Blackpool 𝔐	51	28	44·9	34·2	39·8	− 1·3	8	31	6	2·81	+ 2.08	15·9	+ 8·7	30	+15
	Manchester (Prestwich)	47	26	40·8	31·4	36·3	− 3·9	0	40	6	3·12	+ 2·32	7·9	?	15	?
	Liverpool Obsy. (Bidston)	51	33	44·6	36·7	40·8	− 0·3	7	21	6	2·46	+ 1·83	*	*	*	*
	Llandudno 𝔐	49	34	45·6	38·2	42·1	− 1·8	17	11	6	3·21	+ 2·49	10·6	+ 1.7	20	+ 3
	Holyhead	50	35	48·1	38·9	43·7	− 1·4	25	9	6	2·80	+ 1·95	*	*	*	*
8. ENGLAND, S.W.	Llandovery	51	21	46·3	30·3	38·6	− 2·3	12	46	5	1·03	− 0·15	*	*	*	*
	Pembroke	53	35	49·7	39·4	44·8	− 0·6	31	7	6	0·75	− 0·17	10.7	− 0·7	19	− 2
	Clifton	50	30	44·3	35·3	40·0	− 1·2	6	26	4	0·56	− 0·20	*	*	*	*
	Arlington (N. Devon)	50	27	45·7	33.9	40·0	− 1·7	10	32	4	1·41	+ 0·03	*	*	*	*
	Cullompton 𝔐	52	26	46·7	33·0	40·1	− 2·3	13	37	4	0·87	+ 0·08	16·0	+ 6·5	29	+12
	Falmouth	54	33	47·8	38·6	43·4	− 3·0	24	10	5	0·90	− 0·30	25·6	+11·9	45	+22
	Plymouth	54	29	48·0	35·4	42·0	− 2·9	17	18	3	0·41	− 0·51	22·5	+10·8	40	+19
	Prawle Point	51	30	47·6	36·3	42·2	− 2·9	25	16	4	0·48	− 0·22	*	*	*	*
9. IRELAND, N.	Malin Head	49	36	46·7	39·1	43·1	+ 0·2	20	8	4	0·72	?	*	*	*	*
	Londonderry	47	33	44·4	34·3	39·6	− 2·1	7	30	7	1·25	+ 0·30	*	*	*	*
	Edenfel (Omagh)	47	30	43·3	33·6	38·6	− 0·6	4	31	5	0·98	+ 0·18	*	*	*	*
	Belmullet	51	37	48·4	40·1	44·4	+ 0·8	25	5	7	1·64	+ 0·32	*	*	*	*
	Markree Castle	48	28	46·1	33·6	40·1	− 1·0	11	34	5	1·51	+ 0·61	12·4	+ 1·4	23	+ 3
	Armagh	46	26	44·2	31·6	38·2	− 2·2	6	40	4	0·84	+ 0·24	21·2	+ 9·0	40	+18
	Donaghadee	50	32	45·7	34·6	40·4	− 2·5	10	30	6	0·75	+ 0·15	*	*	*	*
	Edgeworthstown	52	29	45·9	31·6	39·0	− 1·2	11	41	4	1·16	+ 0·36	*	*	*	*
10. IRELAND, S.	Dublin	50	33	45·9	36·7	41·5	− 1·6	11	23	5	1·14	+ 0·69	21·4	+ 7·1	40	+13
	Parsonstown	50	27	47·0	33·4	40·5	− 0·7	14	36	5	1·55	+ 0·78	18·7	+ 5·4	35	+12
	Kilkenny	51	28	47·0	33·1	40·2	− 2·9	14	36	5	0·92	+ 0·30	*	*	*	*
	Roche's Point	53	33	49·7	38·6	44·4	− 0·7	31	10	6	0·53	− 0·63	*	*	*	*
	Valencia	53	34	50·4	40·1	45·5	− 0·8	32	5	6	0·96	− 0·28	15·3	+ 3·5	28	+ 6
	Killarney	53	26	49·1	35·6	42·6	− 1·4	31	18	4	1·33	?	*	*	*	*
	Foynes	50	32	47·9	37·3	42·8	− 0·9	25	13	4	1·32	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	38	51·3	42·3	47·0	− 0·9	35	0	5	0·55	− 0·40	21·0	?	37	?
	Jersey	54	37	49·1	41·7	45·6	− 0·5	26	1	5	1·78	+ 0·91	13·3	− 0·9	23	− 2

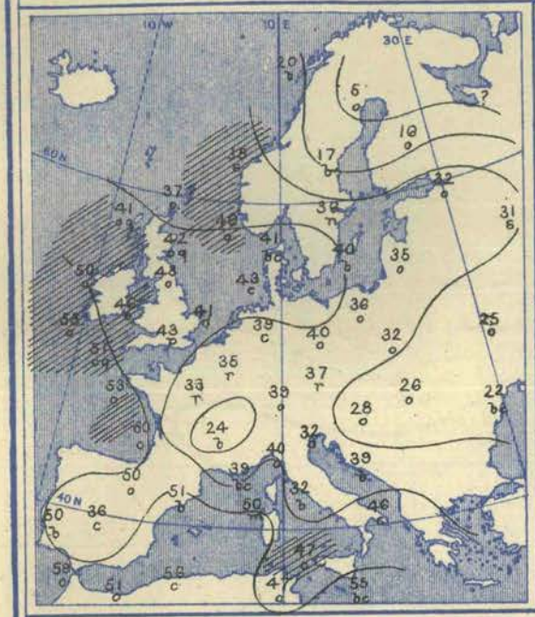
Stations marked 𝔐 are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

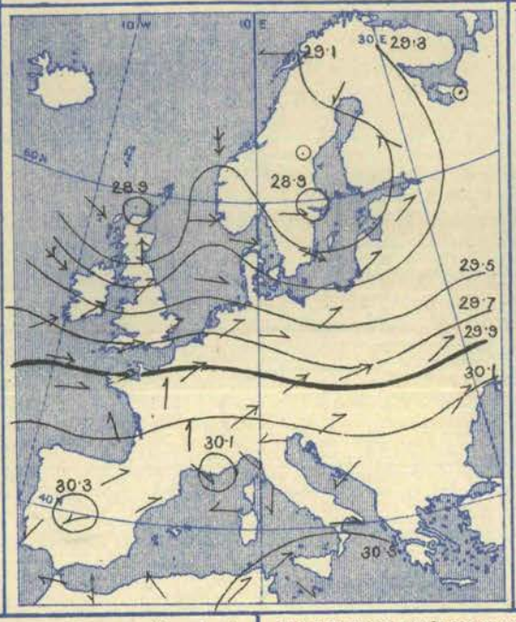
†The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 28th November.

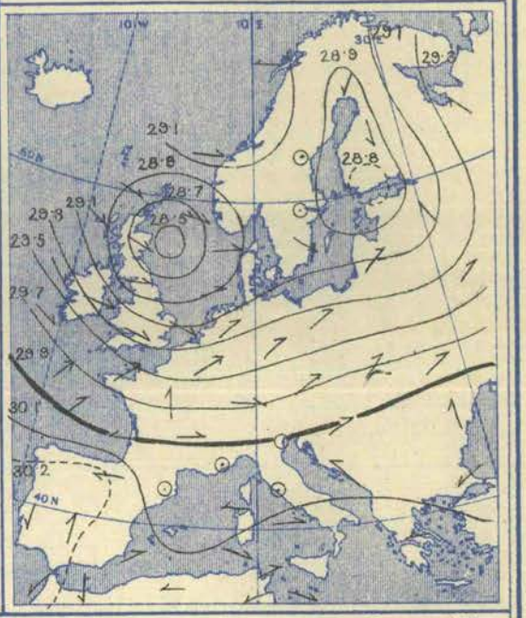
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy and unsettled in all but the southern parts of Europe, with rain at many of our own stations, as well as at Paris, Brussels, Prague and Stockholm, and snow at Christiansund, Ulcaborg and Moscow. Fine over the Spanish Peninsula and the southern parts of France and Italy. Rain falling later over western and central Europe generally, and snow or sleet on our extreme north and north-west coasts, as well as in many parts of Scandinavia and northern Russia. Lightning seen over our Islands at night.

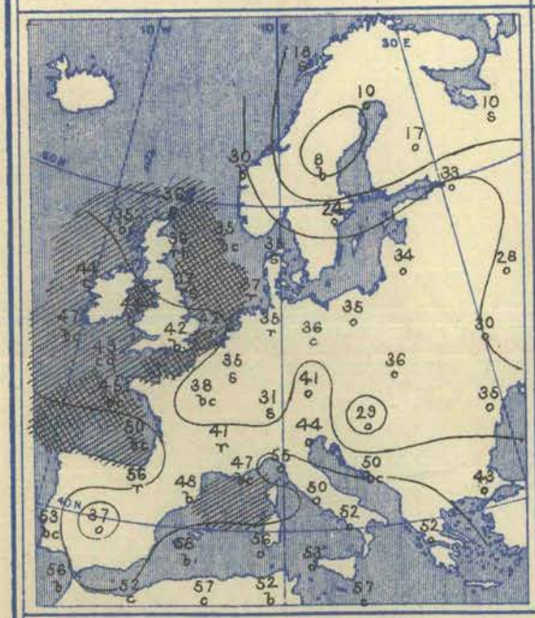
Temperature fallen in our Islands and Norway, risen elsewhere—quickly in France and Germany. Morning readings highest, 59° at San Fernando, 56° at Algiers, and 55° at Malta; above 50° in the west of France and the extreme west and south-west of our Islands. Lowest, 5° at Haparanda, 13° at Uleaborg, 15° at Archangel, 16° at Kuopio, and 17° at Hernösand; below the freezing point over Russia and the north of Scandinavia generally as well as in central France. Daily maxima below 45° in the north of our Islands, but thermometer rising to between 50° and 55° in the central and southern districts; exceeding 55° in the west and south of France, Spain, and southern Italy, and reaching 66° at San Fernando.

Wind North-Westerly on our extreme western coasts, but South-Westerly in other parts of the United Kingdom as well as in the Netherlands, Germany, Austria, and Russia; strong to a gale in force in the north of Ireland and the south of Scotland, and also over the eastern parts of the Baltic. Westerly in Denmark; North-Westerly to Northerly in Scandinavia, with gales at Christiansund and Wisby. Southerly over central France, variable in Italy, North-Easterly over the Spanish Peninsula. Subsequently increasing to a strong gale over the whole of our Islands—from the North-Westward in the west and north, but from the Westward in the south-east

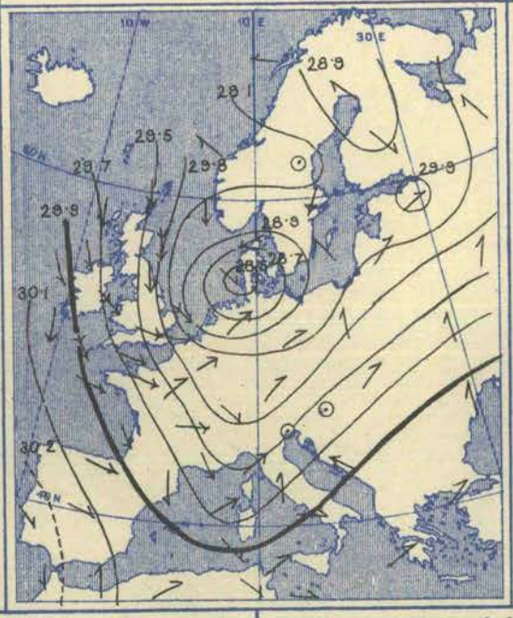
Barometer highest, 30·3 ins. and upwards over central Spain and also over the central parts of the Mediterranean. 30·1 ins. and upwards in an anticyclone lying over southern Europe generally. Lowest, 28·9 ins. and less in two depressions—one lying off the north of Scotland, and the other over the southern part of the Gulf of Bothnia. Former disturbance moving south-eastwards later over the North Sea and growing much deeper, latter depression passing on to Finland.

Monday, 29th November.

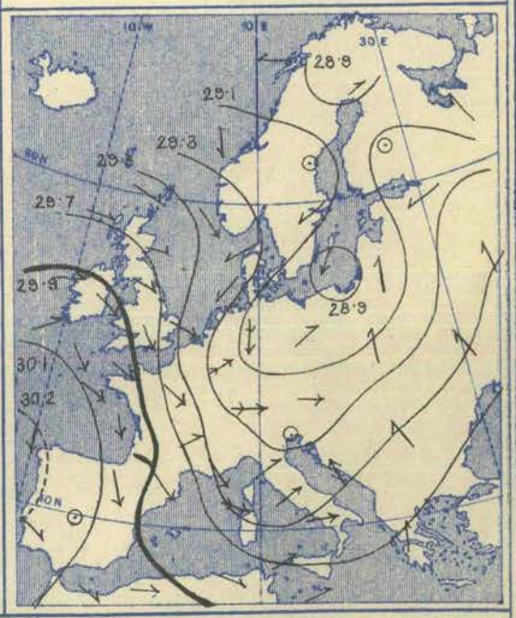
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very squally on the north and east coasts of Great Britain with rain, sleet, or hail in most places; rain or snow falling also in many parts of France, the Netherlands, Denmark, and the south of Sweden. Fine over the western and southern parts of our Islands generally. Cloudy or dull over Russia and southern Europe as a whole, but fine at some stations in the south of France and northern Italy. Improvement taking place later in the east of our Islands and the neighbouring parts of the Continent, but weather remaining very unsettled over the more central countries. Thunderstorm occurring at Shields.

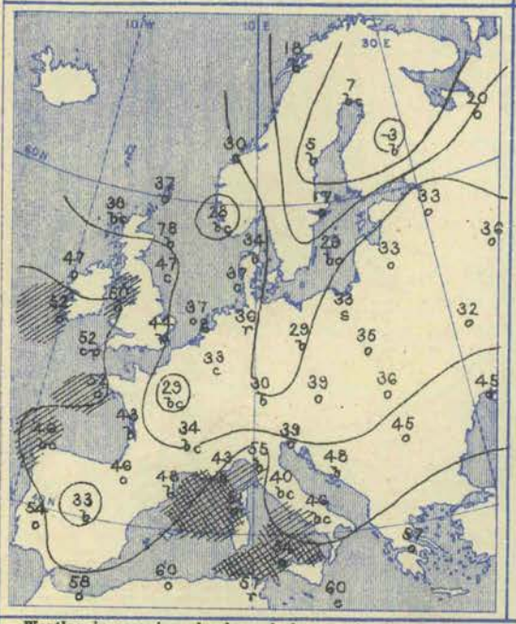
Temperature fallen in all but the southern parts of Europe. Morning readings highest, 58° at Palma, 57° at Malta and Algiers, and 56° at Biarritz; above 50° at most of the Mediterranean and Spanish coast stations. Lowest, 8° at Hernösand, 10° at Archangel and Haparanda, and 14° at Uleaborg; below the freezing point over Russia and Scandinavia generally. Daily maxima below 45° at many of our own northern and eastern stations, but thermometer exceeding 50° on our south-west coasts; exceeding 55° over southern Europe generally, and reaching 64° at Palermo. Sharp frost occurring over Great Britain at night.

Wind strong to a gale from the Northward or North-Westward over all but the extreme western parts of our Islands, and also in the north and west of France; gale severe on the east and south-east coasts of England. South-Westerly over the Netherlands and Germany, with a gale at Münster; North-Easterly in the north of Denmark and the south of Scandinavia with a strong gale at the Scaw; variable over the northern parts of Russia and Scandinavia. Calm in Austria; Westerly or South-Westerly in Italy; North-Westerly over the Spanish Peninsula. Gale setting in later over western Germany; wind moderating quickly on our coasts, and backing to the Westward in the west and north.

Barometer highest, 30·2 ins. and upwards over the south-western parts of the Spanish Peninsula. Lowest, 28·5 ins. and less in a deep depression with its centre over Schleswig; 28·9 ins. and less in two small systems lying respectively over Lapland and near St. Petersburg. Danish depression subsequently moving eastwards and partially filling up; new disturbance beginning to advance towards our own northern coasts.

Tuesday, 30th November.

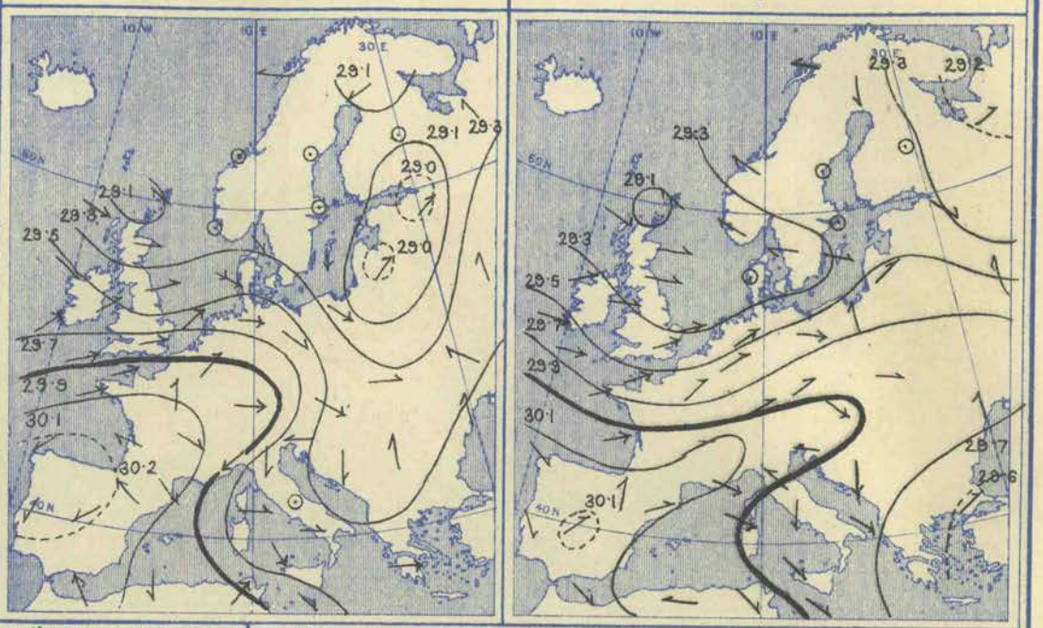
Temperature and Weather. 8 a.m.



Weather in morning cloudy and showery in the western and southern parts of the United Kingdom, but fair or fine in most other parts of western and southern Europe, as well as in Scandinavia; dull over Russia, Austria, and eastern Germany, with rain at Memel, and snow at Neufahrwasser. Rain falling later over western and central Europe generally, heavily in the northern parts of England and Wales, and also at Fanö and several of the French stations. Lightning seen at Roches Point at night.

Temperature risen in our Islands, and also in Russia and Austria, fallen in most other countries. Morning readings highest, 60° at Algiers and Malta, 58° at Athens and Oran, and 57° at Patras; above 50° at many of the Mediterranean stations, as well as on our extreme south-west coasts. Lowest, −3° Fahr. at Kuopio, + 5° at Hernösand, 7° at Haparanda, and 9° at Karlstad; below the freezing point over northern Europe generally, as well as in many parts of France and Germany. Rising during day to 50° and upwards over the southern parts of our Islands; reaching 55° at Scilly, Brest, and Biarritz, 57° at Lorient, 59° at Lisbon, and 61° at Palermo and Malta.

Barometer and Wind. 8 a.m. 6 p.m.

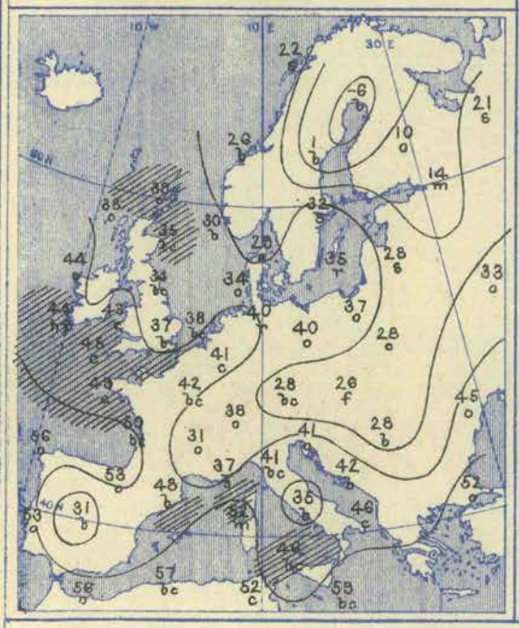


Wind moderate from the Westward in Scotland, fresh to strong from the South-Westward over Ireland, England, and the neighbouring parts of the Continent. Calm at many of the Scandinavian stations, Northerly over the northern parts of the Baltic. North-Westerly or Westerly over Denmark, Germany, and Austria, with a gale at Fanö. Northerly to North-Westerly in Italy, North-Easterly over the Spanish Peninsula; Easterly in the south-west of France. Subsequently increasing to a gale from the South-Westward or Westward on the south coasts of England and Ireland; no important change occurring elsewhere.

Barometer highest, 30·1 ins. to 30·2 ins. and upwards over the Spanish Peninsula and the southern parts of France. Lowest, 29·1 ins. and less in two depressions, one lying off the north of Scotland, another over Lapland, and the third over Finland and the Baltic Provinces. Barometer falling steadily over our Islands during day, and new disturbances apparently forming over the North Sea.

Wednesday, 1st December.

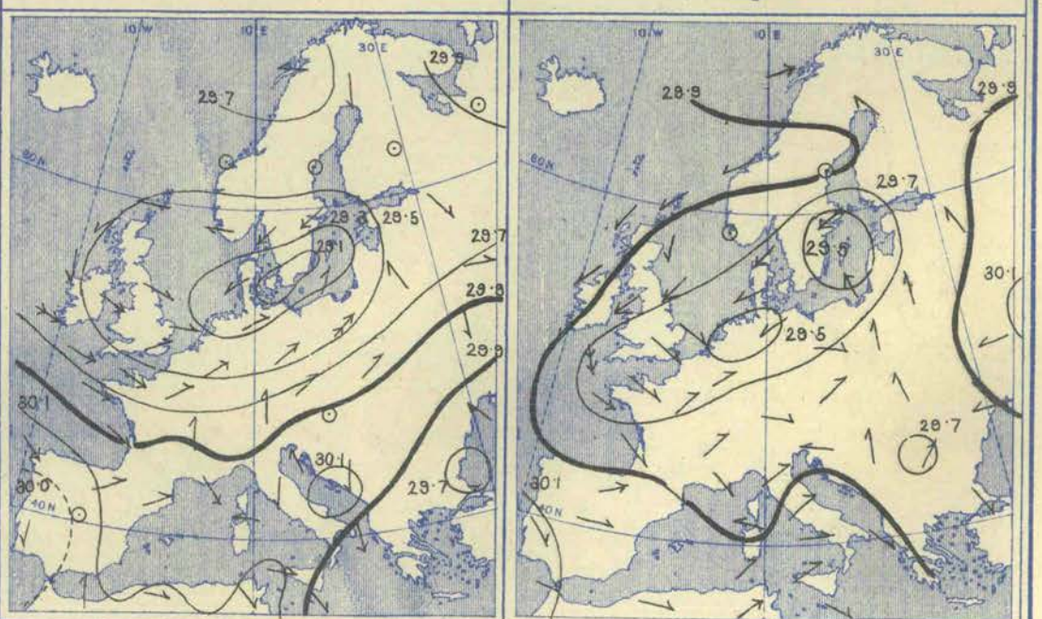
Temperature and Weather. 8 a.m.



Weather in morning rainy in the north-west of England, as well as over the Netherlands, Denmark, and north Germany; snow falling over the south of Sweden, the Gulf of Finland, and the Baltic Provinces. Fair in most other parts of Europe, but showery at some of the Irish stations. Showers of rain, hail, or sleet falling later in most parts of western Europe, heavy rain at Jersey, the Helder, and some of the French stations, and snow in the south of Sweden. Thunderstorms occurring at Scilly and Jersey.

Temperature fallen in our Islands, as well as in most parts of southern and eastern Europe, but risen elsewhere. Morning readings highest, 59° at Malta, 57° at Algiers, and 56° at Corunna and Oran; above 50° over the central and southern parts of the Mediterranean generally. Lowest, −6° Fahr. at Haparanda, +1° at Hernösand, and 10° at Uleaborg and Kuopio; below the freezing point over northern Europe generally, as well as in Austria, northern Italy, and the central parts of Spain, France, and England. Daily maxima below 45° at our northern and eastern stations; thermometer exceeding 55° in the west and south of France, and exceeding 60° at some of the Mediterranean stations.

Barometer and Wind. 8 a.m. 6 p.m.



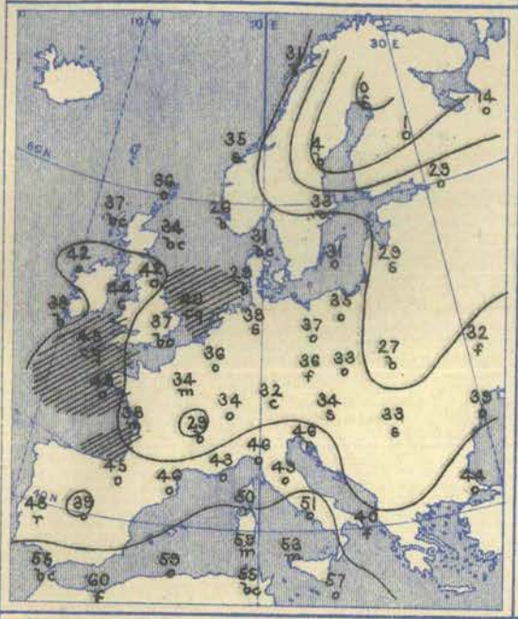
Wind Westerly or North-Westerly over Ireland, England, and the north of France, and strong in force on our western and southern coasts; South-Westerly over the remainder of France, and also over the Netherlands and Germany, with a gale at some of the Baltic stations; Easterly or North-Easterly over Denmark, the south of Scandinavia, and the north of Scotland. Calm in Austria; variable over Spain, Italy, and the south of Russia. Subsequently shifting to North-East or North in all the more western and northern parts of our Islands, and increasing to a gale in the Irish Sea.

Barometer highest, 30·1 ins. to 30·2 ins. in an anticyclone lying over the Spanish Peninsula and Algeria; 29·8 ins. and upwards in a new area appearing off the north-west of Norway. Lowest, 29·0 ins. and less in a depression with its centre near Copenhagen, the borders of the system stretching westwards over the more central parts of our Islands. Depression subsequently moving eastwards, and partially filling up; barometer rising briskly over the United Kingdom, especially in the north.

Thursday, 2nd December.

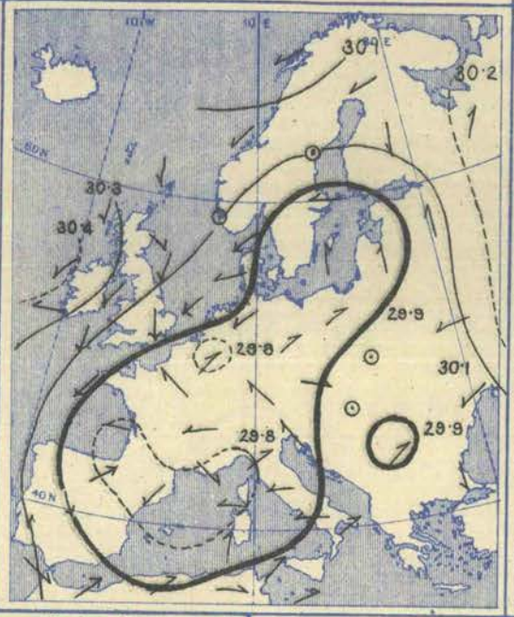
Temperature and Weather.

8 a.m.

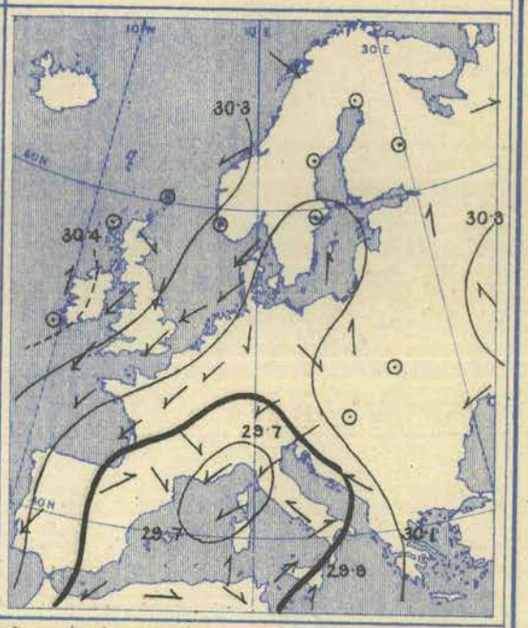


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fair or fine over north-western Europe generally, but showery on the Kentish coasts. Dull in most of the eastern, central, and southern countries, with rain at Lisbon, and snow at Helsingfors, Riga, Christiansund, Cuxhaven, and Vienna. Considerable quantities of sleet or hail falling later on the Kentish coasts, and smaller amounts in the neighbouring parts of the Continent; heavy rain falling in the south of France, and the northern and central parts of Italy—as much as 1·4 ins. at Rome, and 1·3 ins. at Toulon.

Temperature fallen in France, Germany, and the south of our Islands, risen in most other localities. Morning readings highest, 60° at Oran, 59° at Cagliari and Algiers, and 58° at Nemours; above 50° over the central and southern parts of the Mediterranean generally. Lowest, 0° zero at Haparanda, +1 at Kuopio, 3° at Uleaborg, and 4° at Hernösand; below the freezing point over northern Europe generally, and also over central Ireland, and touching 32° over central England. Daily maxima below 45° in nearly all parts of Great Britain, and below 40° at some of the northern and central stations; thermometer exceeding 50° in the west and south of France, and exceeding 60° at some of the Mediterranean stations.

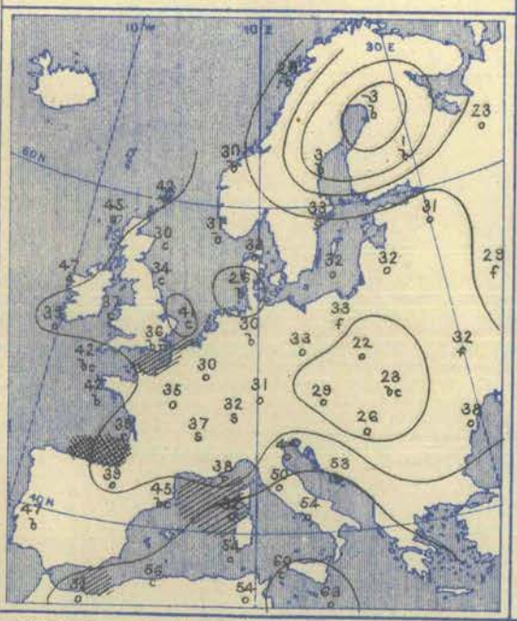
Wind Northerly or North-Easterly over north-western Europe generally, and strong in force on our own eastern and southern coasts, with a gale at the North Foreland; light from the North-Westward in the east of Scotland. Southerly or South-Westerly over Germany and the Baltic, calm in Austria, light from the Eastward in the south of Russia, and also over central France; North-Westerly in Spain, variable in Italy. Subsequently falling to a calm on our own extreme western and northern coasts, but continuing to blow with considerable force on the Kentish coasts.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying off the west of Ireland; 30·2 ins. and upwards in another system over Russia. Lowest, 29·8 ins. and less in three depressions—one lying over the Baltic and the south of Sweden, another over the Netherlands, and the third over the south-west of France, the north-east of Spain, and the neighbouring parts of the Mediterranean. Anticyclone in west subsequently spreading eastwards, and barometer rising over western Europe generally.

Friday, 3rd December.

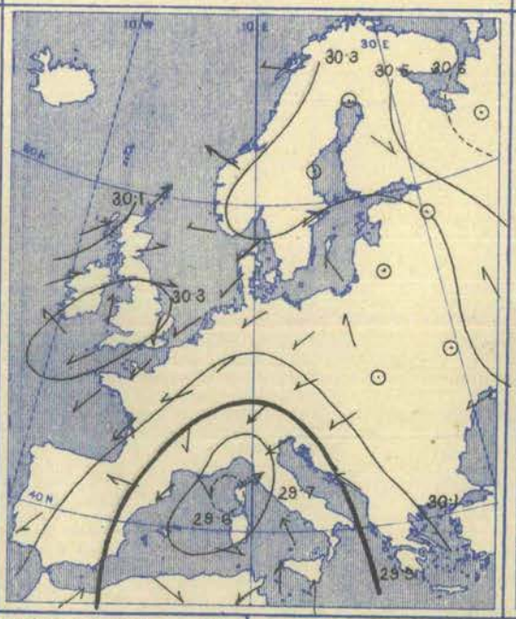
Temperature and Weather.

8 a.m.

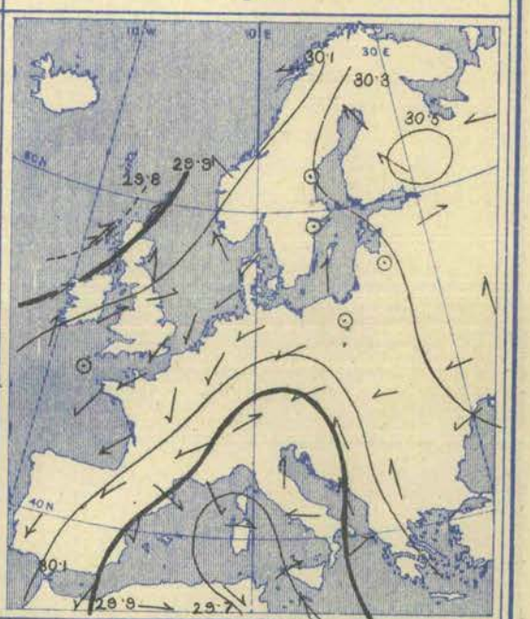


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine over the greater part of England and the south of Ireland, as well as in Holland, Denmark, and the west of Norway. Cloudy or dull in most other parts of Europe, with rain at Nice, and snow at Belfort and Lyons, as well as at Hangö and Stockholm. Rain falling later in the west and north of our Islands, heavily at Belmullet; snow in several parts of Sweden, Germany, and central France. Heavy rain or snow over the south of France, the south of Austria, and in Italy.

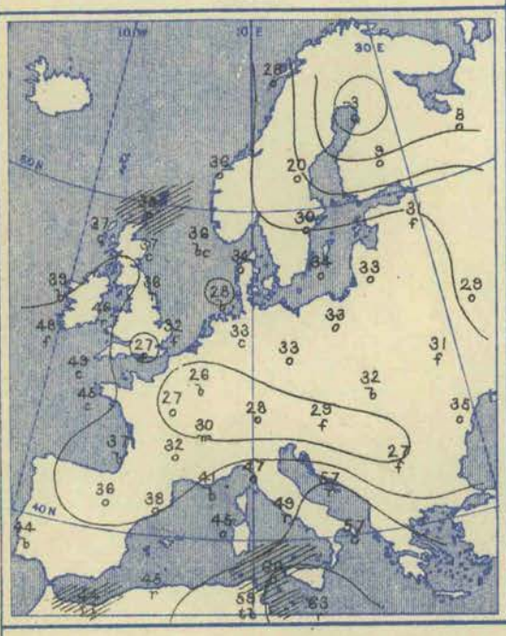
Temperature risen in the north of Scotland and the south of Scandinavia, as well as in Italy, fallen in most other localities. Morning readings highest, 63° at Malta, 60° at Palermo, and 56° at Algiers; above 50° at several of the Mediterranean and Adriatic stations. Lowest, −3° Fahr. at Uleaborg, +1° at Kuopio, 3° at Hernösand, and 9° at Haparanda; below the freezing point in most parts of northern and central Europe, as well as in the east of Scotland and at Prawle Point. Daily maxima considerably below 40° in most parts of Great Britain. Thermometer only touching 45° at Perpignan and Biarritz, and 46° at Nice. Sharp frost occurring over central England at night.

Wind light to fresh from North-East or North over the southern parts of England, and also over the Netherlands, Germany, France, and the Spanish Peninsula; Easterly or South-Easterly over Italy and Austria. Southerly or South-Westerly in the extreme north and north-west of our Islands; South-Easterly or Easterly in the west of Norway; calm over the northern parts of Sweden and Russia. Southerly or South-Westerly winds spreading later over the western and northern parts of our Islands generally, and increasing to a gale on our extreme north-west coasts.

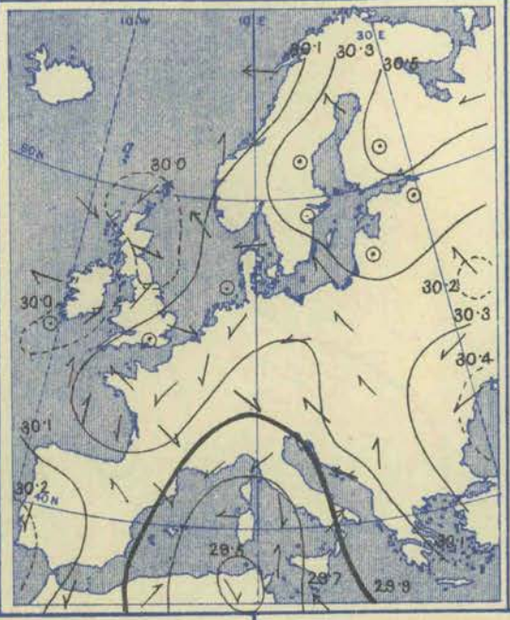
Barometer highest, 30·6 ins. and upwards in the extreme north of Russia; 30·2 ins. and upwards in an anticyclone covering all the more northern parts of Europe, excepting the extreme north and north-west of our Islands. Lowest, 29·6 ins. and less in a depression having its centre off the south of France; 30·1 ins. and less in another disturbance off the north-west of Scotland. Latter disturbance spreading eastwards later, and barometer falling briskly on our western and northern coasts. Mediterranean disturbance becoming more general, but apparently less deep.

Saturday, 4th December.

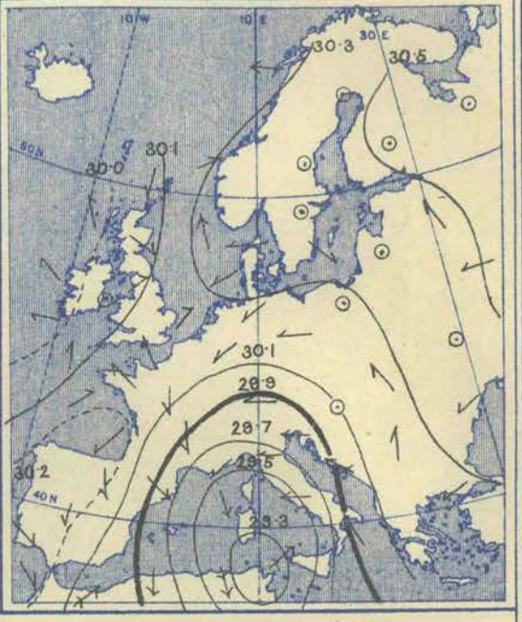
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fair and quiet over northern Europe, fine and bright over the southern parts of the North Sea and the Netherlands, very changeable over our Islands, very unsettled over the eastern and southern parts of the Mediterranean. Rain falling later over the western and northern parts of our Islands generally, and in the south of France. Snow in several parts of Scandinavia. Damp fogs and mists reported in many places.

Temperature risen quickly over Ireland, but changing fitfully as a whole. Morning readings highest, (1) 63° at Malta, 60° at Palermo, 57° at Brindisi and Lesina; (2) 51° at Roches Point, 49° at Scilly, 48° at Holyhead. Lowest, −3° Fahr. to +9° over Finland and the extreme north of Russia; 27° to 32° over the more southern parts; (3) below 32° over south Germany, many parts of France, and the south-east of England. Continuing to change little and irregularly over our Islands.

Wind (1) variable from between South-East and South-West (cyclonic) over the greater part of our Islands; (2) cyclonic over the Mediterranean and southern Europe (a strong gale from South-East at Lesina); (3) light and anticyclonic over northern Europe, as well as over the Netherlands, the south-east of England, and the north of France.

Barometer highest, (1) 30·5 ins. to 30·2 ins. in an anticyclone lying over northern Europe; (2) 30·52 ins. at Ponta Delgada (Azores), and exceeding 30·2 ins. at Lisbon, as well as over the north-west of France and some parts of England. Lowest, (1) 29·5 ins. and less to 29·7 ins. in a large disturbance over the Mediterranean; (2) 29·9 ins. to 30·0 ins. in two shallow systems over the west and north of the British Islands. Rising over Scotland later, falling in the south of France, and over Ireland.

GENERAL NOTES.

At the commencement of this week the weather in all but the southern countries was influenced by a well-marked depression which first appeared off the north of Scotland on the morning of November 28th. During the ensuing 24 hours the disturbance grew much deeper and moved south-eastwards across the North-Sea, the wind increasing to a strong gale from the Westward, and afterwards from the North-Westward or Northward over the whole of north-western Europe, with heavy squalls of rain, hail, or snow. On the 29th the system moved on to the Baltic and western Russia, and rapidly filled up, but on the following day a new disturbance advanced to the north of Scotland, the latter spreading southwards and occasioning heavy rain in many parts of our Islands, with a fresh to strong gale from the Westward on our southern coasts. Later on the depression, which gradually became very complex, moved away in a south easterly, and finally in a southerly direction, the wind in its rear increasing to a gale from the Northward on some of the more exposed parts of the English and Irish coasts. Over the southern countries the weather now underwent an important change, considerable falls of rain or snow being reported in many places, and heavy rain even in Algeria.

On December 2nd an anticyclone spread over north-western Europe from the Atlantic. This, however, soon broke up, while another complex depression appeared over our western coasts, the wind backing to the Southward in our Islands, and increasing temporarily on some parts of our own north-west coasts.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 284.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	6·1	− 2·7	12	− 5	EASTBOURNE	22·4	+10·3	40	+18
OSWALDKIRK (Yorkshire)	11·3	+ 1·5	21	+ 3	VENTNOR HOSPITAL	24·2	?	43	?
WORKSOP	10·4	+ 1·4	19	− 3	SOUTHPORT	12·2	?	23	?
THURCASTON (Leicestershire)	10·3	+ 0·6	19	+ 2	COLWYN BAY	11·4	?	21	?
MARGATE	8·5	− 4·0	15	− 6	TENBY	13·3*	+ 2·1	24*	+ 4
WESTBOURNE (Sussex)	26·0*	+15·0	46*	+26	NEWQUAY	20·1	+ 6·1	35	+10
BRIGHTON	20·8	+ 9·1	37	+15	TORQUAY	19·5*	+ 7·1	34*	+12
					GUERNSEY	5·3*	− 5·8	9*	− 9

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

DATE OF REPORT.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit, Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending Sept. 18th, 1897	Scarborough	63	42	59·3	47·9	53·3	− 1·6	79	0	1	0·15	−0·45	31·4	?	36	?
,, ,, ,, 25th, ,,	Laudale	59	42	55·9	46·7	51·0	− 0·3	63	0	7	3·16	+1·45	—	—	—	—
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	19·1	−16·1	23	−18
,, ,, Oct. 2nd, ,,	Ochtertyre	66	38	60·7	43·3	51·6	+ 1·8	67	0	3	0·31	−0·57	—	—	—	—
,, ,, ,, ,, ,,	Edgeworthstown	62	42	59·7	45·7	52·4	+ 2·1	73	0	4	0·31	−0·36	—	—	—	—
,, ,, ,, ,, ,,	Colwyn Bay	—	—	—	—	—	—	—	—	—	—	—	30·1	?	37	?
,, ,, ,, 9th ,,	Oswaldkirk	—	—	—	—	—	—	—	—	—	—	—	19·8	− 4·2	25	− 5
,, ,, ,, 16th, ,,	Clifton	62	39	56·4	46·8	51·4	+ 1·6	66	0	4	0·63	−0·22	—	—	—	—
,, ,, ,, ,, ,,	Newquay	—	—	—	—	—	—	—	—	—	—	—	17·1	− 9·1	23	−12
,, ,, ,, 23rd, ,,	Churchstoke	63	36	58·7	44·0	51·1	+ 4·8	64	0	2	0·06	−0·74	35·0	+14·0	49	+21
,, ,, ,, ,, ,,	Laudale	62	42	59·7	46·9	53·5	+ 6·5	81	0	3	0·97	−0·75	—	—	—	—

WYMAN & SONS, LTD., LITH., 63, CARTER LANE.

WEEKLY WEATHER REPORT.

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VOL. XIV No. 49.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 11TH, 1897. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

	DISTRICTS. (See p. 290.)	Temperature of the Air.												
		Observed during the Week.					Above or below the Mean for the Week.	Accumulated.						
								For the Week.				From January 3rd, 1897.		
		Highest.	Lowest.	Averages of				Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
				Daily Maxima.	Daily Minima.	Daily Mean.									
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	28	43·6	34·7	39·3	1 above	4	− 6	28	+ 6	2152	+199	733	− 18
	1. SCOTLAND, EAST	54	25	43·4	33·0	38·5	1 above	4	− 7	35	+ 7	2379	+ 37	803	− 4
	2. ENGLAND, N.E.	55	32	45·1	35·5	40·5	1 above	9	− 5	26	+ 4	2649	+ 98	551	− 95
	3. ENGLAND, EAST	55	27	45·7	33·3	39·7	1 above	10	− 5	34	+ 9	3072	+124	620	−111
	4. MIDLAND COUNTIES	55	29	46·3	34·6	40·7	2 above	12	− 5	31	+ 5	2981	+ 61	627	−126
	5. ENGLAND, SOUTH	55	27	48·0	36·9	42·7	2 above	26	+ 3	14	0	3485	+252	348	− 195
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	53	33	46·5	37·3	42·1	2 above	20	+ 4	13	− 5	2621	+133	499	− 61
	7. ENGLAND, N.W.	56	32	47·8	38·3	43·2	2 above	24	+ 6	10	− 6	2912	+183	406	−124
	8. ENGLAND, S.W.	55	28	49·6	39·4	44·7	2 above	30	+ 2	7	− 3	3321	+261	262	−141
	9. IRELAND, NORTH	54	30	46·4	35·5	41·1	0 (average)	12	− 4	27	+10	2694	+ 75	466	− 12
	10. IRELAND, SOUTH	58	31	50·0	38·0	44·2	1 above	32	+ 6	11	− 1	3230*	+228	272	− 92
	—CHANNEL ISLANDS	55	39	52·5	43·6	48·2	2 above	43	+ 1	0	− 3	3957	+400	68	− 87

	DISTRICTS. (See p. 290.)	Rainfall.							Bright Sunshine.						
		For the Week.			From January 3rd, 1897.				For the Week.				From January 3rd, 1897.			
		No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	7	26	13 more	217	−12	42·6	− 3·9	1	− 2	2	− 6	1225	+183	29	+ 5
	1. SCOTLAND, EAST	6	13	6 more	193	+ 6	27·9	− 2·3	6	− 2	12	− 3	1332	+ 78	31	+ 2
	2. ENGLAND, N.E.	5	8	3 more	175	− 2	23·4	− 1·6	7	− 2	14	− 3	1418	+153	33	+ 4
	3. ENGLAND, EAST	4	8	2 more	164	− 9	22·0	− 2·8	10	− 1	18	− 2	1578	+ 79	37	+ 2
	4. MIDLAND COUNTIES	6	10	4 more	166	− 3	25·5	− 1·4	9	0	16	0	1487	+135	35	+ 3
	5. ENGLAND, SOUTH	6	13	6 more	157	− 8	24·6	− 3·1	13	+ 2	24	+ 3	1654	+ 81	39	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	21	8 more	209	+13	42·9	− 3·3	5	0	11	0	1385	+ 30	32	+ 1
	7. ENGLAND, N.W.	6	16	8 more	187	+ 3	34·9	+ 1·8	6	− 1	11	− 3	1489	+130	34	+ 3
	8. ENGLAND, S.W.	7	26	16 more	194	+ 7	40·5	+ 3·4	13	+ 2	23	+ 2	1602	− 14	38	0
	9. IRELAND, NORTH	7	15	7 more	220	+ 7	38·0	+ 2·5	8	− 2	16	− 4	1263	+ 21	30	+ 1
	10. IRELAND, SOUTH	6	15	6 more	206	+13	43·9	+ 7·5	16	+ 4	30	+ 7	1403	− 8	33	0
	— CHANNEL ISLANDS	7	21	12 more	206	+ 7	33·8	+ 2·2	16	+ 5	28	+ 7	1695	−124	41	− 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this period was extremely changeable, with frequent heavy rain in nearly all parts of the Kingdom. Considerable falls of sleet and snow were experienced in the north about the middle of the week. Brief intervals of fine, bright weather prevailed occasionally, but these occurred mainly at night.

Temperature was very unstable, but was, on the whole, rather above the mean in all districts excepting Ireland N. The highest of the maxima were registered on the 7th, and ranged from 58° in Ireland S. and 56° in England N.W, to 51° in Scotland N. The lowest of the minima, which were recorded, as a rule, on the 6th, varied from 25° in Scotland E. to 33° in Scotland W. and to 39° in the Channel Islands.

Rainfall exceeded the mean in all districts. In most of the western and northern districts the fall was more than twice as much as the mean. The heaviest aggregate falls recorded during the week were 4·42 ins. at Glencarron, 3·85 ins. at Falmouth and Arlington, 3·65 ins. at Stornoway, and 3·64 ins. at Fort William.

Bright Sunshine was less than the mean in most of the northern and north-western districts, but exceeded it in the extreme south and south-west. The percentage of the possible duration ranged from 30 in Ireland S. and 28 in the Channel Islands to 11 in Scotland W. and England N.W., and to only 2 in Scotland N.

Barometer and Wind.—The constant advance of depressions to our Islands and their neighbourhood from the Atlantic produced strong and squally South-Westerly to Westerly or North-Westerly winds or gales in all parts of the Kingdom. On many occasions the wind increased to the force of a gale over a portion of the Kingdom only, but a very deep disturbance, which was observed in the extreme north on the 8th, caused gales over almost the entire Kingdom.

607 | 90 W. & S., Ltd.
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*This value has been altered owing to the receipt of further information for a preceding week.

II.—DATA from which the SUMMARY on page 289 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N	Sumburgh Head	46	35	44·1	37·9	41·1	+ 1·2	6	17	7	2·81	+ 1·81	*	*	*	*
	Stornoway	49	32	44·0	34·1	39·3	− 0·6	6	31	7	3·65	+ 2·37	0·5	− 5·4	1	−13
	Wick	48	33	43·1	34·7	39·1	+ 0·4	3	28	7	0·60	− 0·12	*	*	*	*
	Lairg Ⓢ	46	28	40·5	32·4	36·6	− 0·6	0	38	7	0·94	+ 0·12	*	*	*	*
	Glencarron Ⓢ	49	30	43·2	33·6	38·6	+ 1·4	3	32	7	4·42	+ 2·18	*	*	*	*
	Fort Augustus Ⓢ	50	29	44·2	33·6	39·1	+ 0·6	6	32	7	2·40	+ 1·28	0·8	− 0·9	2	− 2
	Fort William Ⓢ	51	34	46·2	36·4	41·5	+ 1·7	12	24	7	3·64	+ 1·56	0·1	− 2·6	0	− 6
1. SCOTLAND, E.	Nairn	50	25	43·6	32·0	38·0	− 0·1	4	38	7	1·33	+ 0·34	*	*	*	*
	Aberdeen	49	30	43·6	33·7	38·9	+ 0·8	4	32	7	1·46	+ 0·69	7·5	− 1·8	16	− 3
	Braemar Ⓢ	46	27	39·6	30·9	35·4	+ 0·3	0	46	7	2·15	+ 1·45	0·2†	− 4·8†	0†	−10†
	Ochtertyre Ⓢ	49	29	43·1	32·7	38·1	+ 0·4	3	35	6	1·49	+ 0·53	*	*	*	*
	Leith	54	32	47·3	36·3	42·0	+ 2·1	15	16	5	0·55	+ 0·06	*	*	*	*
	Marchmont Ⓢ	?	29	?	32·3	?	?	?	?	5	0·97	+ 0·18	8·0	− 0·9	17	− 1
2. ENGLAND, N.E.	Alnwick Castle	52	32	46·9	35·5	41·4	+ 2·4	14	28	5	1·37	+ 0·63	*	*	*	*
	Durham	54	34	45·7	34·7	40·4	+ 2·1	10	30	5	0·48	− 0·12	11·3	+ 1·5	23	+ 3
	Shields	55	35	45·1	36·1	40·8	+ 1·7	9	24	5	0·98	+ 0·45	*	*	*	*
	Scarborough Ⓜ	51	33	43·2	35·5	39·5	− 0·5	3	25	4	0·84	+ 0·23	7·6	?	15	?
	York	53	33	45·9	35·1	40·7	+ 2·0	11	28	5	0·81	+ 0·32	5·5	− 0·7	11	− 2
	Spurn Head	51	34	44·0	35·9	40·1	+ 0·3	6	24	5	0·51	+ 0·03	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	53	32	45·4	34·6	40·2	+ 1·6	10	30	3	0·74	+ 0·14	6·6	− 3·1	12	− 6
	Yarmouth	48	30	43·9	32·6	38·5	− 0·6	5	36	3	0·54	− 0·08	*	*	*	*
	Geldeston	54	28	46·5	34·0	40·5	+ 1·1	13	33	5	0·95	+ 0·43	13·3	+ 1·6	25	+ 2
	Cambridge	55	28	46·7	32·0	39·6	+ 0·9	13	40	3	0·61	+ 0·20	7·5	− 3·3	14	− 6
	Rothamsted	54	27	45·9	33·3	39·9	+ 1·2	11	35	5	0·94	+ 0·37	11·7	+ 1·7	22	+ 3
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	52	31	45.4	34·0	39·9	+ 1·2	10	32	5	0·86	+ 0·39	*	*	*	*
	Loughborough	53	33	47·4	35·7	41·8	+ 2·4	15	28	7	0·90	+ 0·41	*	*	*	*
	Stamford (Duddington)	54	32	45·0	34·6	40·0	+ 1·2	8	29	7	0·79	+ 0·19	*	*	*	*
	Cheadle Ⓜ	50	31	44·0	33·9	39·2	+ 1·3	6	32	6	1·34	+ 0·67	*	*	*	*
	Shirley (near Solihull)	52	31	46.0	34·4	40.4	+ 1·2	11	31	6	1·01	?	*	*	*	*
	Churchstoke Ⓜ	53	33	48·1	35·3	42·0	+ 3·0	17	19	7	1·50	+ 0·79	9·3	+ 0·5	18	+ 1
	Hereford Ⓜ	55	31	47·7	35·4	41·8	+ 1·9	16	29	7	0·81	+ 0·22	*	*	*	*
	Cirencester	53	30	46·7	33·3	40·3	+ 1·6	13	36	7	0·86	+ 0·22	11·7	+ 2·7	22	+ 5
	Oxford	54	29	46·7	35·0	41·1	+ 1·1	13	30	5	0·65	+ 0·13	13·8	+ 4·3	26	+ 7
5. ENGLAND, S.	London	54	27	47·0	34·9	41·2	+ 1·0	14	30	4	0·80	+ 0·34	7·3†	+ 2·1†	14†	+ 3†
	North Foreland	51	31	45·6	34·1	40·1	− 1·3	10	32	3	0·68	?	*	*	*	*
	Dungeness	52	28	49·0	36·4	43·0	+ 1·2	31	16	5	0·76	+ 0·08	*	*	*	*
	Hastings (St. Leonards)	53	33	48·4	35·9	42·4	+ 0·6	28	17	6	1·36	+ 0·69	15·1	+ 1·9	27	+ 4
	Southampton	55	35	49·9	38·2	44·3	+ 2·9	32	11	7	1·70	+ 1·00	14·0	+ 2·7	25	+ 4
	Hurst Castle	55	35	49.9	42 0	46.1	+ 3·4	29	0	7	1·30	+ 0·66	*	*	*	*
	Shaftesbury Ⓜ	52	34	46.2	36·7	41.6	+ 3·4	12	23	7	2·16	+ 1·44	*	*	*	*
6. SCOTLAND, W	Laudale (Loch Sunart)	52	31	46·8	35·0	41·1	+ 0·2	13	29	7	3·04	+ 0·93	*	*	*	*
	Glasgow	50	33	44·6	37·2	41·1	+ 2·9	7	20	7	2·31	+ 1·41	4·1	+ 0·4	9	+ 1
	Ardrossan	51	36	46·9	38·6	42·9	+ 1·6	21	10	7	1·03	+ 0·23	*	*	*	*
	Glenlee Ⓢ	52	33	46·3	35·3	41·0	+ 2·8	12	28	7	3·43	+ 1·96	*	*	*	*
	Gilcrux (Cumberland)	51	35	45·8	37·6	41·9	+ 3·0	11	19	7	1·88	?	1·9	?	4	?
	Douglas (Isle of Man)	53	36	48·7	39·8	44·4	+ 1·9	26	6	5	0·92	− 0·10	9·9	− 1·1	19	− 3
7. ENGLAND, N.W.	Stonyhurst	51	32	45·9	37·2	41·7	+ 2·5	11	21	7	2·25	+ 1·20	2·1	− 5·6	4	−10
	Blackpool Ⓜ	53	36	48·3	38·1	43·4	+ 3·4	26	11	7	1·07	+ 0.35	4·5	− 1·5	9	− 4
	Manchester (Prestwich)	55	33	47·0	36·1	41·8	+ 2·6	14	26	7	2·11	+ 1·30	2·6	?	5	?
	Liverpool Obsy. (Bidston)	55	35	47·1	37·3	42·4	+ 2·1	23	13	7	1·88	+ 1·27	*	*	*	*
	Llandudno Ⓜ	56	38	50·5	41·0	45·9	+ 3·1	32	3	4	1·39	+ 0·69	10·7	+ 2·9	20	+ 4
	Holyhead	53	33	47·7	40·0	44·0	− 0·4	22	6	6	0·91	+ 0·06	*	*	*	*
8. ENGLAND, S.W.	Llandovery	53	28	48·0	35·6	42·1	+ 2·7	28	18	7	1·89	+ 0·69	*	*	*	*
	Pembroke	53	40	50·3	43·4	47·0	+ 2·1	35	0	7	1·93	+ 1·01	11·1	+ 0·9	21	+ 1
	Clifton	53	36	47·4	38·7	43·2	+ 3·0	22	9	7	2·11	+ 1·39	*	*	*	*
	Arlington (N. Devon)	52	36	48·0	37.9	43·2	+ 2·4	26	11	7	3·85	+ 2·50	*	*	*	*
	Cullompton Ⓜ	55	31	49·8	36·1	43·2	+ 2·3	33	17	7	2·19	+ 1·40	12·0	+ 3·5	22	+ 6
	Falmouth	54	40	52·1	41·1	46·8	+ 1·4	37	3	7	3·85	+ 2·65	15·5	+ 2·7	28	+ 5
	Plymouth	55	37	51·8	42·2	47·2	+ 3·3	36	0	7	3·08	+ 2·18	13·0	+ 1·9	23	+ 3
	Prawle Point	53	37	49·6	40·4	45·2	+ 1·2	29	4	7	1·95	+ 1·19	*	*	*	*
9. IRELAND, N.	Malin Head	51	33	46·4	37·1	41·9	− 0·3	12	21	7	1·80	?	*	*	*	*
	Londonderry	52	33	45·3	35·4	40·6	0·0	9	27	7	1·66	+ 0·74	*	*	*	*
	Edenfel (Omagh)	52	30	45·4	33·6	39·7	+ 1·4	10	33	7	1·37	+ 0·57	*	*	*	*
	Belmullet	53	35	48·6	38·0	43·5	+ 0·3	27	11	7	1·57	+ 0·29	*	*	*	*
	Markree Castle	54	30	46·5	34·6	40·8	+ 0·8	13	31	7	1·71	+ 0·79	6·7	− 3·1	13	− 5
	Armagh	54	32	46·6	35·0	41·0	+ 1·6	13	29	7	1·07	+ 0·47	9·8	− 0·4	19	− 1
	Donaghadee	53	33	45·7	34·6	40·4	− 1·7	10	30	6	1·45	+ 0·84	*	*	*	*
	Edgeworthstown												*	*	*	*
10. IRELAND, S.	Dublin	57	36	49·6	37·4	43·7	+ 1·8	31	13	6	0·67	+ 0·18	17·2	+ 4·1	32	+ 7
	Parsonstown	55	34	47·9	36·4	42·4	+ 2·2	26	16	6	1·17	+ 0·42	16·1	+ 4·1	30	+ 8
	Kilkenny	54	34	47·9	36·6	42·5	+ 0·5	26	15	6	1·13	+ 0·45	*	*	*	*
	Roche's Point	55	38	50·3	40·7	45·7	+ 1·2	31	4	6	1·17	− 0·01	*	*	*	*
	Valencia	55	37	51·7	40·1	46·1	+ 0·3	37	5	7	1·81	+ 0·54	14·8	+ 4·0	27	+ 6
	Killarney	58	33	52·8	37·3	45·4	+ 2·1	44	13	7	2·32	?	*	*	*	*
	Foynes	55	31	49·7	37·4	43·8	+ 0·9	32	13	7	1·93	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	40	53·6	44·9	49·4	+ 2·1	52	0	7	1·79	+ 0·85	14·7	?	26	?
	Jersey	54	39	51·3	42·3	47·0	+ 2·1	35	0	7	2·31	+ 1·47	16·7	+ 2·9	29	+ 4

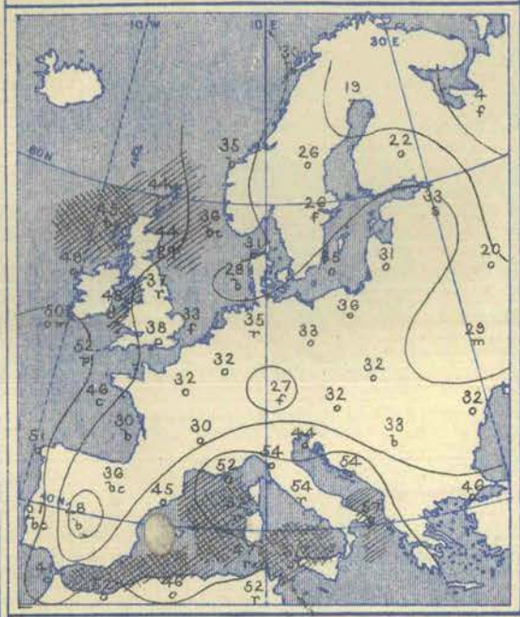
Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 5th December.

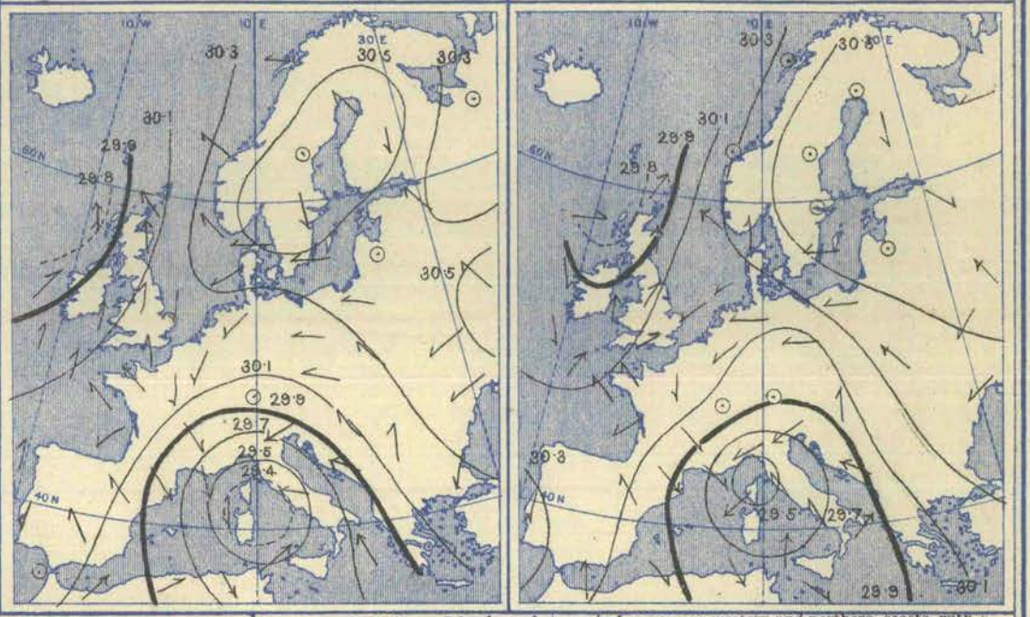
Temperature and Weather. 8 a.m.



Weather in morning dull over the greater part of our Islands; rain falling in the north-east of Great Britain, as well as at several of the Mediterranean and Adriatic stations, and snow at Swinemunde. Fine and bright in the west of Norway, and also over the Spanish Peninsula and the west of France. Rain falling later in nearly all parts of the United Kingdom, as well as in Denmark, the north-west of France, and at most of the Italian stations.

Temperature risen over our Islands and a considerable portion of the Continent, but fallen in many parts of France, and also in Russia and the south of Scandinavia. Morning readings highest, (1) 57° at Lisbon and Brindisi, and 54° at Florence, Rome, and Lesina; (2) 52° at Roche's Point and Scilly. Lowest, 4° at Archangel, 19° at Haparanda, 20° at Moscow, and 21° at Ulleaborg and Karlstad; below the freezing point over northern Europe generally, as well as in the central parts of France and Spain. Daily maxima very little above 40° over the eastern and central parts of England, but thermometer rising to 50° or more on our western coasts, and to 54° at Valencia (Ireland); exceeding 50° in most parts of southern Europe, and reaching 59° at Palermo and Malta.

Barometer and Wind. 8 a.m. and 6 p.m.

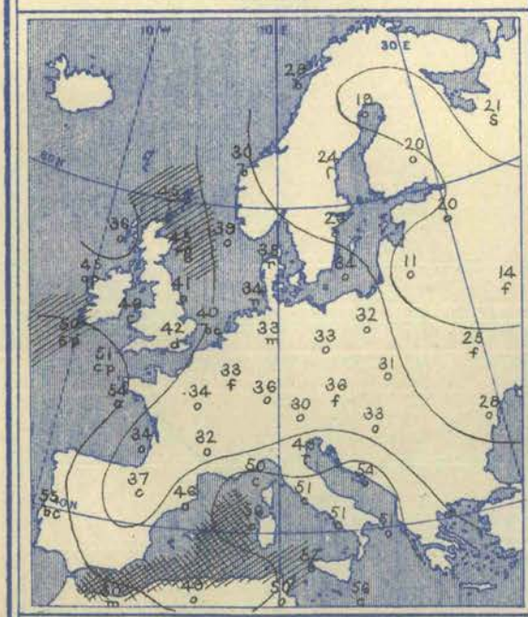


Wind Southerly in our Islands, and strong in force on our western and northern coasts, with a gale at Stornoway; South-Easterly or Easterly in the west of Norway. Easterly or North-Easterly over Denmark and Germany, Northerly over the Netherlands and France; Westerly or South-Westerly in Algeria; Easterly or South-Easterly in Italy; very strong in force at many of the Mediterranean and Spanish stations. Variable in Russia, and also over the Spanish Peninsula. Subsequently increasing to a gale from the Southward in the east of Scotland, but falling light and shifting to the North-Westward in the west of Ireland.

Barometer highest, 30·5 ins. and upwards over Sweden and Finland, and also over the southern parts of Russia; 30·2 ins. and upwards in an anticyclone covering the whole of northern and eastern Europe, and extending south-westwards over the south-east of England, as well as in another system over Spain. Lowest, 29·4 ins. and less in a well-marked depression lying over Corsica and Sardinia; 29·8 ins. and less in another disturbance off the north-west of our Islands. Latter disturbance spreading later in the form of a "V"-shaped system over all our western coasts.

Monday, 6th December.

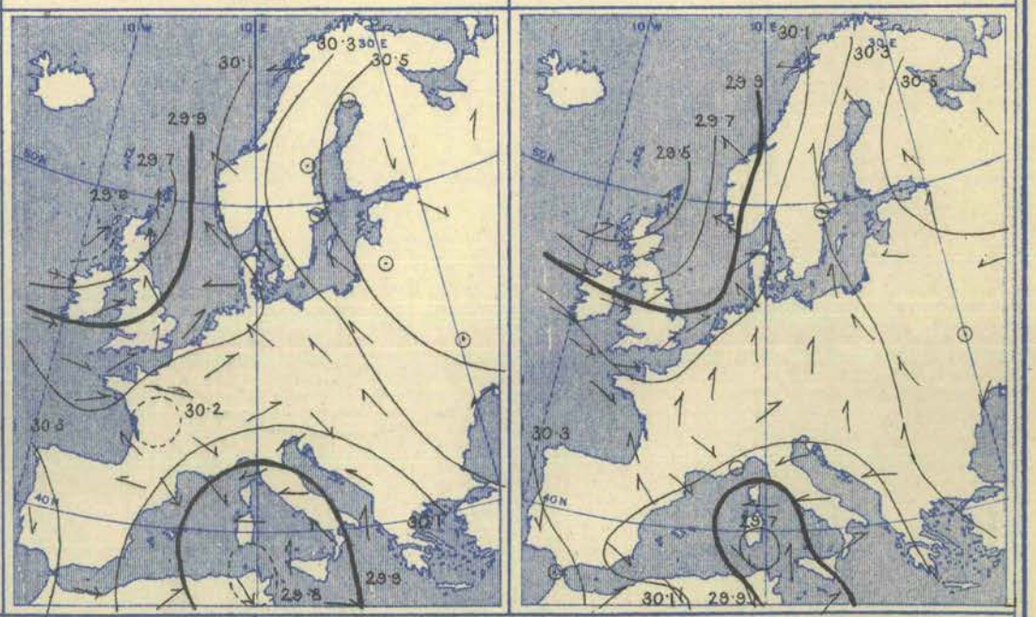
Temperature and Weather. 8 a.m.



Weather in morning fair and quiet over Russia, Germany, France, and Spain, and foggy in several places, but very unsettled over the British Islands, and rather so over the Mediterranean. Rain falling generally over the United Kingdom and neighbouring countries later. Hail in the north of Ireland; halos and coronæ seen in many places.

Temperature changing fitfully. Morning readings highest, 58° to 59° at many of the Mediterranean stations; 54° at Brest, 51° at Scilly, 50° at Valencia (Ireland). Lowest, 11° at Riga, 14° at Moscow, much below 30° over Russia generally; 30° at Munich and Belfort, 34° at Paris, 36° at Stornoway, 40° at Parsonstown and Yarmouth. Changing very irregularly during the day, and becoming temporarily frosty over England at night. Rising fast in Ireland still later.

Barometer and Wind. 8 a.m. and 6 p.m.

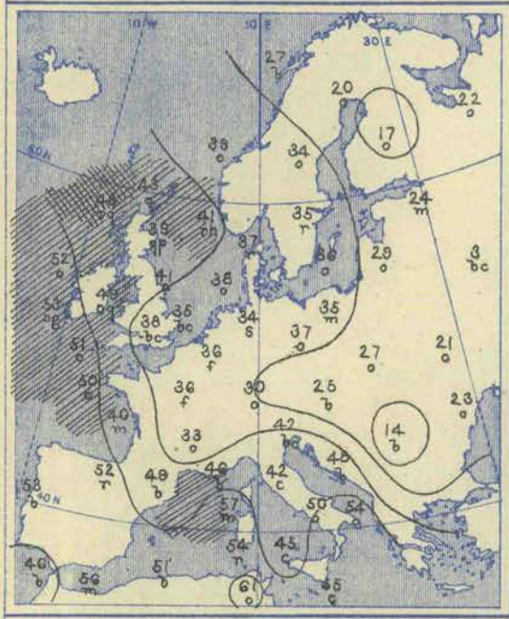


Wind very light and variable over Russia and south-western Europe; light South-Easterly over central Europe; strong South-Easterly on the eastern shores of the North Sea; very variable and cyclonic from between South and West over the United Kingdom, and blowing hard at Belmullet. Becoming very strong over the Irish Sea and north of England later, and veering Westward over England.

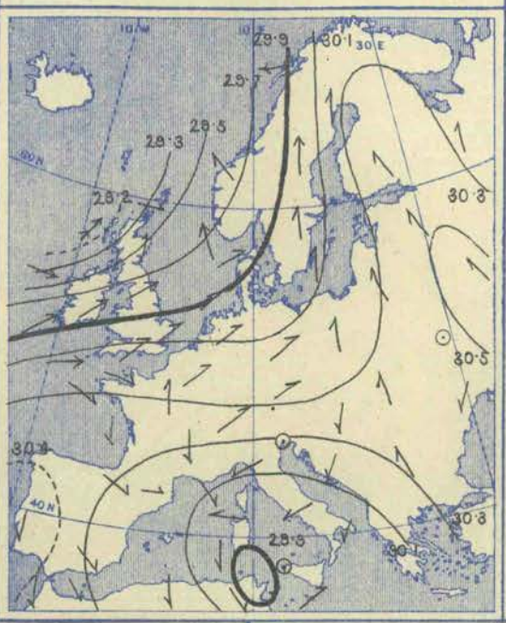
Barometer highest, 30·5 ins. and more over Russia, and also over the Azores, and varying from 30·2 ins. and more to 30·1 ins. over France and Germany. Lowest, below 29·6 ins. in a depression off the west of Scotland, and below 29·8 ins. in another over the Mediterranean. The northern system travelling north-eastwards later, but numerous small secondary depressions passing eastwards across our Islands and the North Sea.

Tuesday, 7th December.

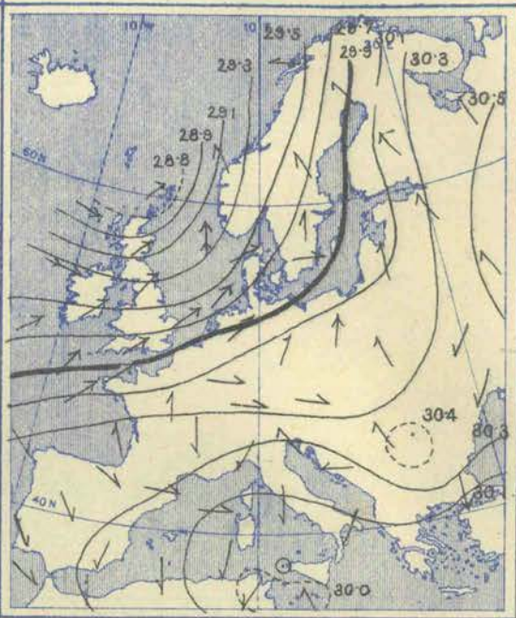
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull in the west and north of our Islands, with rain in several places; fine in the eastern and south-eastern parts of England. Dull over the greater part of the Continent, with fog or mist at several of the French and Austrian stations, rain in the north of Denmark and the south of Scandinavia, and snow at Cuxhaven. Fine over the Spanish Peninsula, northern Italy, and the extreme south of France. Rain falling later over the whole of north-western Europe—heavily in the south of England and the north of Scotland; snow occurring in several parts of Sweden and northern Russia.

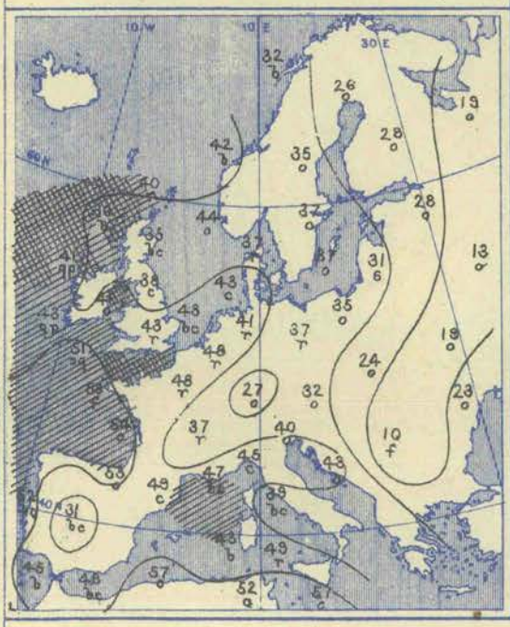
Temperature risen in most of the western and northern countries. Morning readings highest, (1) 61° at Tunis, 57° at Sanguinaire, and 56° at Oran; (2) 53° at Valencia (Ireland), and 52° at Belmullet and Roche's Point. Lowest, 3° at Moscow, 14° at Hermanstadt, and 17° at Kuopio and Kharkov; below the freezing point over the whole of Russia, Austria, and eastern Germany. Rising during day to between 50° and 55° in most parts of the United Kingdom, and also in the west and south of France; reaching 61° at Oporto, Cagliari, and Malta, and 63° at Palermo. Frost occurring in many parts of our Islands at night.

Wind South-Westerly over the United Kingdom, the north of France, the Netherlands, Germany and Denmark; strong in force on most of our own west and north-west coasts, with a gale at Stornoway. Southerly in Sweden and Russia; South-Easterly or Easterly in Norway; variable in Austria; Northerly (North-Easterly to North-Westerly) over Italy, Spain, and the south of France. Subsequently increasing to a gale from the South-Westward or Westward in nearly all parts of our Islands, and from the Southward in the south of Norway.

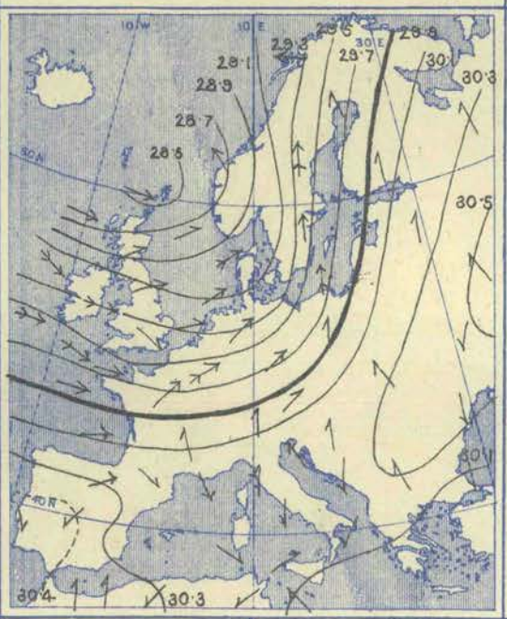
Barometer highest, 30·5 ins. and upwards over central Russia; 30·4 ins. and upwards over the western parts of the Spanish Peninsula. Lowest, 29·2 ins. and less in a deep depression having its centre off the north-west of Scotland; 29·9 ins. and less in a shallow disturbance over the Mediterranean, between the coasts of Tunis and Sardinia. Depression off our north-west coasts subsequently moving eastwards; barometer falling rapidly in north, and gradients becoming very steep over the whole of north-western Europe.

Wednesday, 8th December.

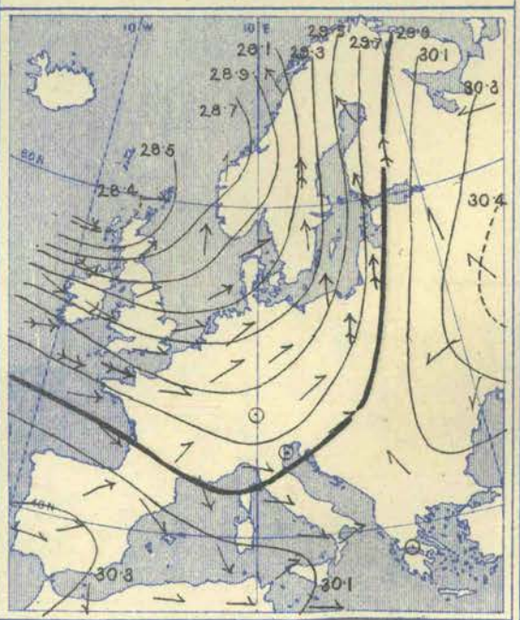
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning very unsettled, rough, and squally over the whole of our Islands and the neighbouring parts of Continental Europe, with snow in the north and north-west, rain elsewhere, and lightning at Ardrossan; fair and quiet over the southern and eastern countries. Snow, graupel (soft hail), or cold rain falling later over the north-western, northern, and central countries generally, thunder and lightning in the north-west of Great Britain. Very strong lunar halo in London at 11.0 p.m.

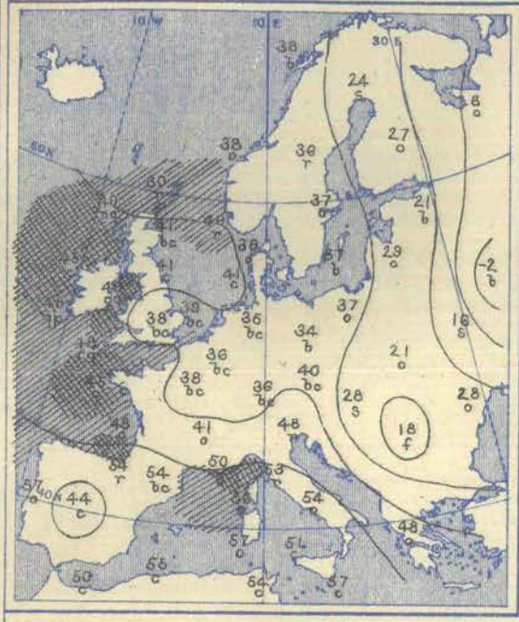
Temperature falling decidedly over Scotland and Ireland, risen fast over France, slightly over Norway. Morning readings highest, 57° at Malta and Algiers, and exceeding 50° at many of the stations on the southern and western coasts of Europe; 53° at Jersey, 51° at Scilly. Lowest, 10° at Hermanstadt, 13° at Moscow, below 20° over almost the whole of Russia; 26° at Haparanda, 29° at Swinemunde, and between 35° and 40° over the northern parts of Great Britain. Falling still further over our Islands later, and fall extending to the Continent.

Wind Westerly to North-Westerly over our Islands, South-Westerly to Southerly over the countries lying to the eastward of the North Sea; strong in force generally, but blowing a hard gale on the western coasts of the British Isles, and a fresh gale over Denmark and Scandinavia. A gale from Southward and Westward springing up in Scotland later. Light and variable breeze over south-eastern and southern Europe all day, but Southerly gale extending over Baltic and Gulf of Finland in evening.

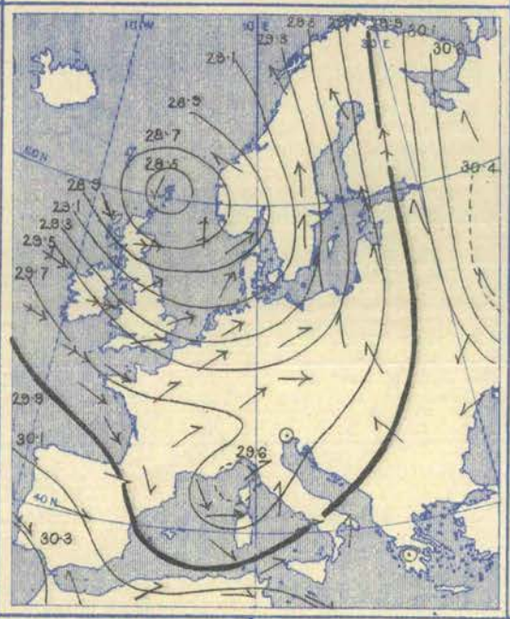
Barometer highest, (1) 30·68 ins. over the Azores, and exceeding 30·2 ins. over the Spanish Peninsula and south-west of France; (2) 30·5 ins. and more to 30·2 ins. over Russia and south-eastern Europe. Lowest, below 28·5 ins. over the Shetland Islands. Gradients very steep over the British Isles and north-western Europe. Inclined to rise in Ireland later, but a new and deep depression approaching the north of Scotland from the westward.

Thursday, 9th December.

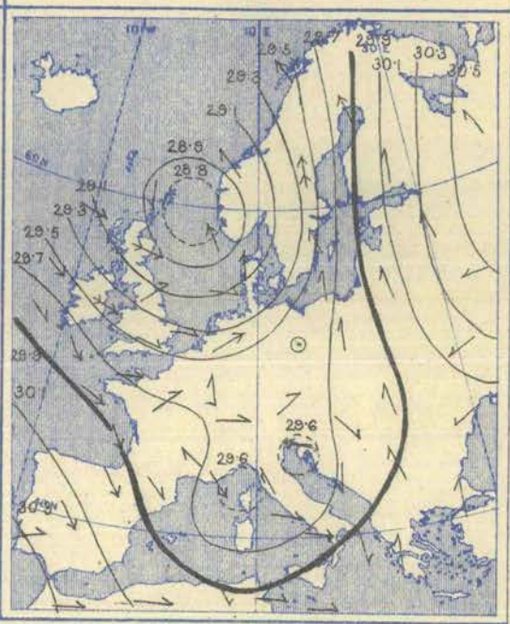
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine over central Russia on the one hand, and over the west and south of Spain on the other, as well as over some parts of north Germany, the north of France, and the east of England; very unstable, however, over Europe as a whole, very squally and rough over the British Islands, with rain or snow in many places, as well as over central Europe, and in the north of Italy. Clearing up in many parts of the United Kingdom later, but becoming rainy again in the west and north subsequently.

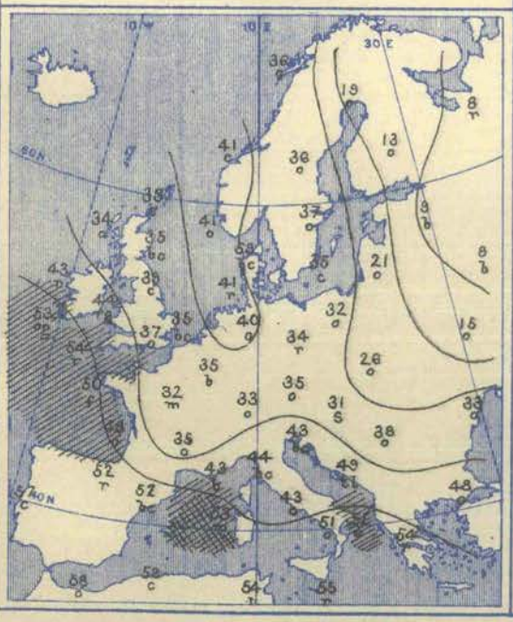
Temperature changing very fitfully over western Europe, falling over Russia. Morning readings highest, 57° at Malta and Lisbon, 54° at Biarritz, 48° at Jersey and Scilly, 45° at Belmullet. Lowest, (1) −2 Fahr. at Moscow, +5° at Kharkov, 8° at Archangel; below 30° over Finland and the western parts of Russia, Poland, and Hungary; 34° at Berlin, 38° at Paris, in London, and at Parsonstown. Falling fast over our Islands later, but no permanent change noted.

Wind cyclonic in direction and strong to a gale in force over all the north-western countries—North-Westerly to Westerly over the British Islands, the north of France, South-Westerly over the Netherlands, Southerly over the Baltic, Sweden, and Finland; South-Easterly over Lapland and the north-west of Norway. Light over Russia and over the Spanish Peninsula, but cyclonic and strong over the south-east of France, the north of Italy, and Corsica. The North-Westerly gale continuing in the north and west of the British Islands till night, but wind subsiding over English Channel.

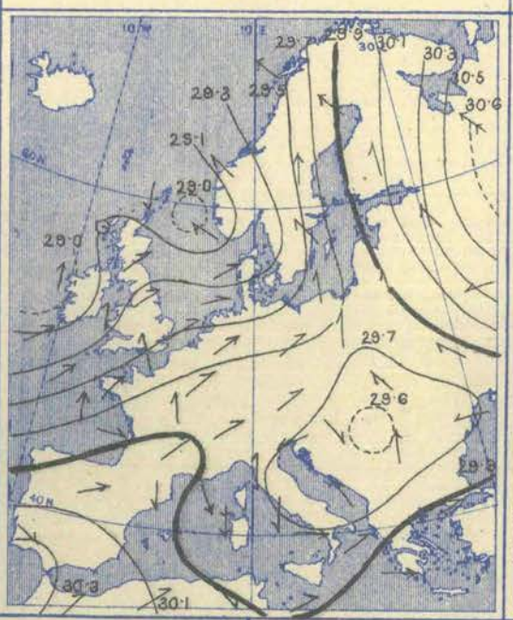
Barometer highest, (1) 30·50 ins. at Ponta Delgada (Azores) and 30·3 ins. to 30·0 ins. over the Spanish Peninsula and north of Africa; (2) 30·4 ins. and more to 30·0 ins. over Russia generally. Lowest, (1) 28·5 ins. and less in a depression covering the whole of north-western Europe and having its centre near Sumburgh Head; (2) below 29·6 ins. in a small system over the Gulf of Genoa. Rising quickly over our Islands and Scandinavia later (the northern depression filling up).

Friday, 10th December.

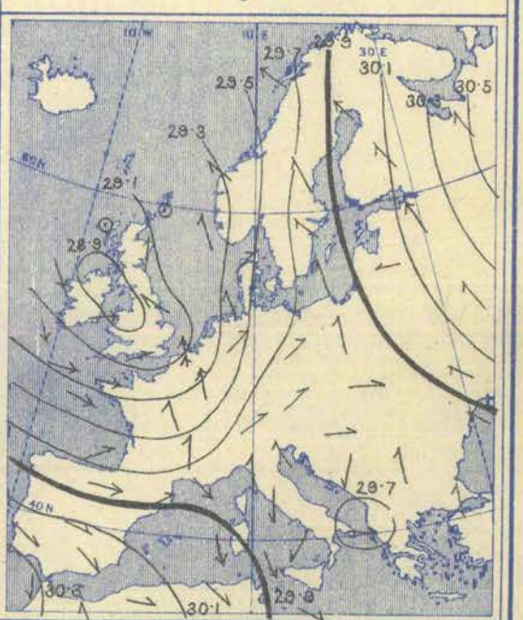
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over central Russia and over the greater part of Spain; very changeable and unsettled both over our Islands and north-western Europe, and also over Italy and the south-east of France. Rain falling generally at our western and southern stations, sky temporarily clear on our east coasts; thunder and lightning reported at Lesina. Snow reported over Austria-Hungary. Rain falling very generally over western Europe during day—heavily at several of our own and the French stations.

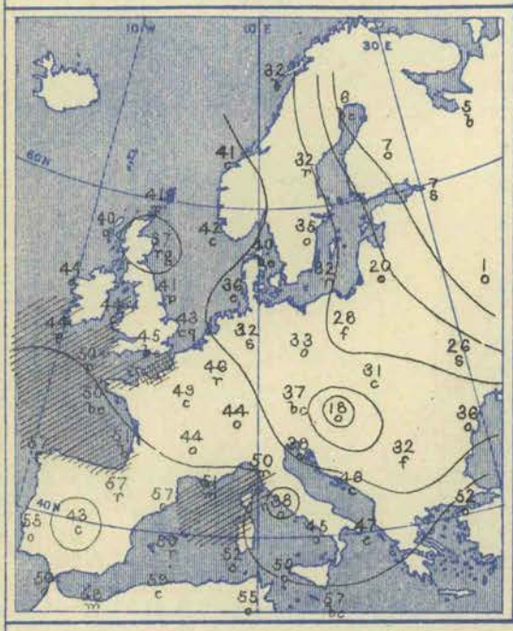
Temperature fallen fast over Finland, changed very fitfully over the British Islands and their neighbourhood. Morning readings highest, 59° to 50° on the southern shores of the Mediterranean, 57° at Lisbon, 54° at Scilly, 53° at Valencia (Ireland); lowest, 4° Fahr. at Kharkov, 8° at Archangel, 9° at St. Petersburg and Moscow; rather above 32° over central Europe as a whole, 34° to 37° over the major part of Great Britain. Exceeding 50° at many of our western stations during day; reaching 55° or more in the west of France and 60° or more over Spain and the Mediterranean.

Wind South-Easterly and Easterly (anticyclonic) over Russia, South-Westerly and North-Westerly (anticyclonic) over Spain. Cyclonic complicated circulation prevalent over northern Europe and the United Kingdom—the direction being South-Westerly to South-Easterly over our Islands. Other complex cyclonic circulations over Italy and the Gulf of Genoa, and Hungary—a Westerly gale at Naples, and a Northerly gale at Sanguinaires. Southerly gales on our south-east coasts later, and Westerly winds, strong to a gale on our western coasts.

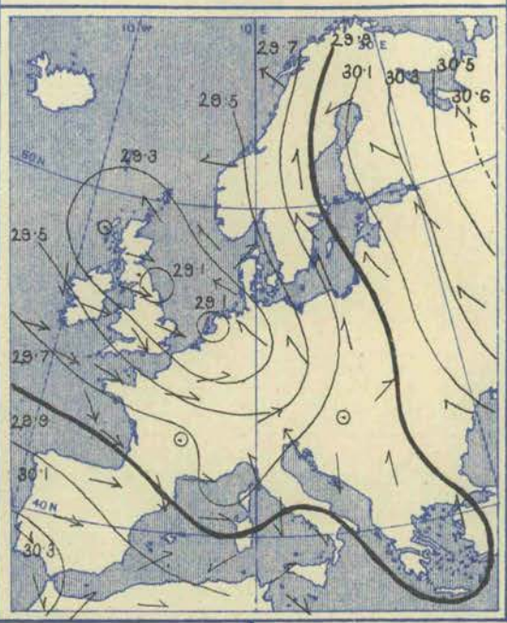
Barometer highest, (1) 30·6 ins. and more to 30·0 ins. over the northern half of Russia; (2) 30·3 ins. and more to 30·0 ins. over Spain. Lowest, (1) below 29·0 ins. in a new depression lying off our north-west coasts, and in a very shallow one (filling up) between the Shetlands and Norway; (2) below 29·6 ins. in a depression over Italy, and in secondary systems over Corsica and over Hungary. The disturbance off our north-west coasts advancing eastwards later, and undergoing great modifications both in size and depth.

Saturday, 11th December

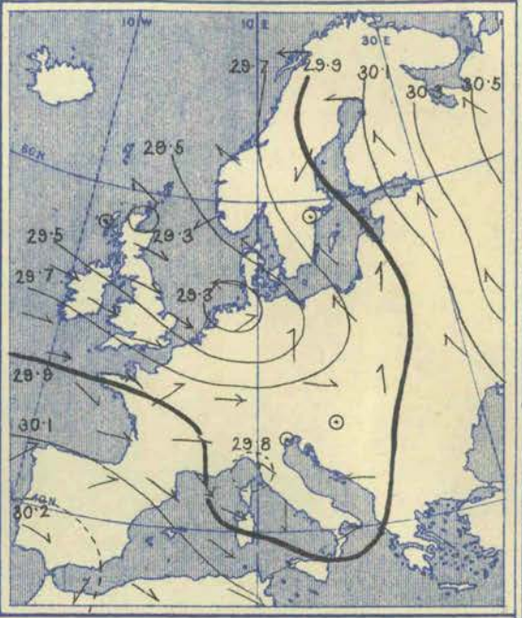
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the west and south of our Islands generally but showery on our extreme south-west coasts; dull on our northern and eastern coasts, with steady rain in the north of Scotland and showers in many other localities. Cloudy or dull at most of the Continental stations, with rain in Sweden, northern Italy, and the south-west of France, and snow in Finland. Some improvement taking place later in the north and east of our Islands, but steady rain setting in at night over the Channel and the north of France. Considerable quantities of rain and snow falling in north Germany.

Temperature risen in France, the Netherlands, and all but the south-western parts of our Islands, fallen elsewhere. Morning readings highest, 59° at Palma and Algiers, 58° at Oran and 57° at Biarritz, Corunna, Barcelona, and Malta. Lowest, 1° at Moscow, 5° at Archangel, and 6° at Haparanda; below the freezing point in most parts of Germany and Austria. Daily maxima below 45° on many parts of our northern coasts; thermometer exceeding 50° in the Channel Islands and the west of France; reaching 63° at Perpignan, 64° at Cagliari, and 65° at Corunna. Frost occurring over our Islands at night.

Wind Westerly or North-Westerly over the greater part of western and southern Europe, and strong in force on many parts of the English and Irish coasts, with a gale at Liverpool. Light to fresh from the South-Eastward in most of the northern, eastern, and central countries. Moderating later on our western coasts, but gale from the Westward springing up at the Helder. Strong Westerly and North-Westerly winds setting in at many of the Mediterranean stations.

Barometer highest, 30·6 ins. and upwards in an anticyclone lying over northern Russia, 30·3 ins. and upwards in another system lying off the south-west of Spain. Lowest, 29·1 ins. and less in two small depressions—one lying over Holland and the other off the north-east of England. Depressions subsequently moving eastwards and partially filling up; barometer rising in all parts of western Europe.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line bein given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During the greater part of this week two high-pressure systems were in existence, the one over northern or central Russia, and the other to the south-westward of the Spanish Peninsula. In the neighbourhood of each of these areas the winds were light and variable, and the weather mostly fair, but over the north-western countries the conditions were affected by numerous depressions, the centres of which appeared for the most part off the north of Scotland, and which afterwards moved eastwards to the Norwegian coasts. These disturbances occasioned very strong winds or gales from the Westward in our Islands, and from the Southward or South-Eastward over Scandinavia, Denmark, and western Russia, with heavy falls of rain, sleet, or snow. On the 10th a well-marked, though somewhat shallower, depression advanced eastwards directly across our Islands, but at the close of the week this was dispersing over the North Sea.

Over north-western Europe the changes in temperature were frequent, and at times rather sudden. In our Islands, where the sky often cleared at night, some rather sharp frosts were experienced.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 290.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	7·6	+ 0·6	16	+ 2	EASTBOURNE	15·2	+ 3·4	28	+ 6
OSWALDKIRK (Yorkshire)	4·4	- 4·6	8	- 9	VENTNOR HOSPITAL	13·6	?	25	?
WORKSOP	3·5	- 4·7	7	- 9	SOUTHPORT	5·2	?	10	?
THURCASTON (Leicestershire)	4·8	- 3·5	9	- 6	COLWYN BAY	8·7	?	16	?
MARGATE	8·8	- 2·9	16	- 4	TENBY	14·0*	+ 3·5	26*	+ 6
WESTBOURNE (Sussex)	15·2*	+ 4·5	28*	+ 8	NEWQUAY	8·4	- 4·9	15	- 9
BRIGHTON	13·9	+ 2·9	25	+ 4	TORQUAY	16·0*	+ 4·2	29*	+ 8
					GUERNSEY	*		*	

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder.

WYMAN & SONS, LTD., LITH., 63, CARTER LANE.

WEEKLY WEATHER REPORT.

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VOL. XIV No. 50.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 18TH, 1897. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 296.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	55	23	46·2	35·8	41·2	3 above	12	+ 3	26	0	2164	+202	759	- 18
	1. SCOTLAND, EAST	56	17	46·2	34·2	40·4	3 above	12	+ 4	32	- 1	2391	+ 41	835	- 5
	2. ENGLAND, N.E.	57	25	48·5	37.3	43·1	5 above	27	+16	13	-13	2676	+114	564	-108
	3. ENGLAND, EAST	57	28	49·5	37·2	43·6	6 above	31	+19	13	-17	3103	+143	633	-128
	4. MIDLAND COUNTIES	58	25	50·0	37·8	44·2	6 above	33	+21	12	-18	3014	+ 82	639	-144
	5. ENGLAND, SOUTH	57	30	52·0	41·8	47·1	7 above	37	+18	1	-18	3522	+270	349	- 213
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	55	29	48·5	39·2	44·0	5 above	26	+12	8	-13	2647	+145	507	- 74
	7. ENGLAND, N.W.	58	30	50·2	39·9	45·3	5 above	32	+17	6	-14	2944	+200	412	-138
	8. ENGLAND, S.W.	58	26	53·0	42·2	47·8	7 above	41	+18	0	-14	3362	+279	262	-155
	9. IRELAND, NORTH	56	26	48·1	37·5	43·0	3 above	26	+12	13	- 7	2720	+ 87	479	- 19
	10. IRELAND, SOUTH	57	29	51·0	38·8	45·2	3 above	36	+13	9	- 6	3266	+241	281	- 98
	—CHANNEL ISLANDS-	56	42	54·7	46·7	50·8	5 above	62	+26	0	- 4	4019	+426	68	- 91

Rainfall. Bright Sunshine.

	DISTRICTS. (See p. 296.)	Rainfall. For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.	Bright Sunshine. For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.								
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	10	3 less	223	-12	43·6	- 4·2	6	+ 3	12	+ 4	1231	+186	28	+ 4
	1. SCOTLAND, EAST	4	6	1 less	197	+ 6	28·5	- 2·4	8	+ 1	18	+ 3	1340	+ 79	31	+ 2
	2. ENGLAND, N.E.	4	5	0 (average)	179	- 1	23·9	- 1·6	3	- 5	6	-10	1421	+148	33	+ 4
	3. ENGLAND, EAST	4	6	0 (average)	168	- 9	22·6	- 2·7	11	+ 1	20	+ 1	1589	+ 80	37	+ 2
	4. MIDLAND COUNTIES	6	11	5 more	172	- 1	26·6	- 0·8	10	+ 2	19	+ 3	1497	+136	35	+ 3
	5. ENGLAND, SOUTH	5	11	4 more	162	- 7	25·7	- 2·7	14	+ 3	27	+ 6	1668	+ 85	39	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	5	11	1 less	214	+13	44·0	- 3·4	5	- 1	10	- 2	1390	+ 29	31	0
	7. ENGLAND, N.W.	6	11	3 more	193	+ 5	36·0	+ 2·0	9	+ 2	17	+ 4	1498	+132	34	+ 3
	8. ENGLAND, S.W.	5	18	8 more	199	+ 7	42·3	+ 4·2	14	+ 3	27	+ 6	1616	- 11	38	0
	9. IRELAND, NORTH	6	9	0 (average)	226	+ 8	38·9	+ 2·5	11	+ 2	21	+ 3	1274	+ 23	30	+ 1
	10. IRELAND, SOUTH	5	13	4 more	211	+13	45·2	+ 7·9	14	+ 3	27	+ 5	1417	- 5	33	0
	— CHANNEL ISLANDS-	5	12	3 more	211	+ 7	35·0	+ 2·5	16	+ 6	30	+10	1711	-120	41	- 3

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather continued unsettled and rainy during the greater part of the week, but towards the end it became quiet, foggy, and misty. The falls of rain were less heavy generally than those of the preceding week, but during the first day or two they were very considerable over the southern and south-western parts of the Kingdom. Thunderstorms were experienced over all the southern counties of Ireland and England during the evening or night of the 14th.

Temperature was rather low at the commencement of the period, but soon became very high for the time of year, so that the average for the week exceeded the normal by 3° in Scotland N. and E. and over Ireland, by 6° in England E. and the Midland counties, and by 7° in England S. and S.W. Changes were, however, frequent and very sudden. The highest of the maxima were recorded on the 16th or 17th, when the thermometer rose to 58° over England S.W. and N.W. and the Midland counties, and to between 57° and 55° over the other parts of the Kingdom. The lowest of the minima were registered, as a rule, either on the 12th or 13th, and varied from 17° in Scotland E. to 23° in Scotland N., and to 30° in the Midland counties and England N.W. In the Channel Islands, however, the lowest reading was 42°.

Rainfall was rather less than the mean in Scotland, and just equal to it in England N.E. and E. and Ireland N. In all other districts there was an excess, that in the Midland counties and England S. and S.W. being large.

Bright Sunshine exceeded the mean in all districts except England N.E. and Scotland W. The percentage of the possible duration ranged from 30 in the Channel Islands, and 27 in England S. and S.W. and Ireland S., to 10 in Scotland W., and to 6 in England N.E.

Barometer and Wind.—Depressions continued to reach our coasts from the westward and south-westward until nearly the end of the period. The first of these travelled very quickly over our southern counties on Sunday, but the subsequent systems moved north-eastwards or northwards over our western and northern districts. By Friday, however, an anticyclone was beginning to spread over our Islands from the Continent, and the depressions were disappearing over Scandinavia. The wind, after blowing from various quarters in the south and south-west on Sunday, became Southerly and South-Westerly very generally, and, although only moderate or fresh in force as a whole, increased to a moderate or fresh gale at times, especially in the west. At the end of the week the wind had become light from the Westward in all the northern districts, calm in the south-east, and light from East-South-East in the south-west.

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NOTE.—Owing to the operation of the Factory Act the publication of the Weekly Weather Report next week will be delayed somewhat.

II.—DATA from which the SUMMARY on page 295 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head	50	35	46·4	39·3	43·0	+ 3·7	18	8	7	1·07	+ 0·09	*	*	*	*
	Stornoway	50	29	45·6	34·6	40·3	+ 1·2	10	30	6	1·17	− 0·12	4·0	− 1·6	9	− 4
	Wick	50	30	47·3	37·7	42·7	+ 4·8	23	12	6	0·27	− 0·45	*	*	*	*
	Lairg Ⓢ	50	23	44·5	31·8	38·4	+ 1·8	7	39	4	0·43	− 0·47	*	*	*	*
	Glencarron Ⓢ	50	31	45·3	36·0	41·1	+ 4·5	11	25	6	1·32	− 0·90	*	*	*	*
	Fort Augustus Ⓢ	51	26	46·2	34·0	40.3	+ 2·3	12	32	6	0·65	− 0·47	7·2	+ 5·7	16	+12
	Fort William Ⓢ	55	31	47·8	36·9	42·6	+ 3·4	26	14	6	2·12	+ 0·02	5·7	+ 3·4	12	+ 6
1. SCOTLAND, E.	Nairn	51	25	47·7	33·6	40·9	+ 3·3	16	35	2	0·03	− 0·42	*	*	*	*
	Aberdeen	52	26	47·3	36·4	42·1	+ 4·5	24	16	5	0·57	− 0·13	14·7	+ 5·7	32	+12
	Braemar Ⓢ	48	17	42·7	*30·3	36·8	+ 2·4	2	44	4	1·14	+ 0·45	8·0†	+ 3·2†	17†	+ 7†
	Ochtertyre Ⓢ	52	24	45·3	33·6	39·7	+ 2·8	9	33	5	1·11	+ 0·17	*	*	*	*
	Leith	56	27	48·3	36·9	42·8	+ 3·7	27	14	3	0·14	− 0·30	*	*	*	*
	Marchmont Ⓢ	52	27	45·7	34·1	40·1	+ 3·7	10	32	3	0·31	− 0·40	7·0	+ 1·0	15	+ 3
2. ENGLAND, N.E.	Alnwick Castle	55	29	48·8	36·7	43·0	+ 4·8	29	15	5	0·75	+ 0·05	*	*	*	*
	Durham	55	28	47·9	35·5	42·0	+ 4·8	17	18	5	0·50	− 0·12	5·8	− 4·0	12	− 8
	Shields	55	31	49·1	39·0	44·3	+ 5·7	29	8	2	0·24	− 0·28	*	*	*	*
	Scarborough Ⓜ	56	28	48·5	37·3	43·1	+ 4·5	27	13	3	0·38	− 0·23	2·6	?	5	?
	York	57	25	50·0	36·7	43·6	+ 5·9	33	15	5	0·91	+ 0·41	0·8	− 4·2	2	−10
	Spurn Head	52	31	46·7	38·6	42·8	+ 3·7	20	10	3	0·46	0·00	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	56	28	49·4	37·1	43·5	+ 6·3	31	14	4	0·64	+ 0·08	6·4	− 2·7	12	− 6
	Yarmouth	52	29	48·1	37·4	43·0	+ 4·8	13	26	4	0·40	− 0·19	*	*	*	*
	Geldeston	56	29	49·4	37·9	43·9	+ 5·5	31	11	3	0·43	− 0·07	12·3	+ 1·2	23	+ 1
	Cambridge	57	29	50·7	37·0	44·1	+ 6·3	36	14	4	0·28	− 0·12	9·6	− 0·3	18	− 1
	Rothamsted	56	28	49·9	36·8	43·6	+ 5·7	33	15	5	1·01	+ 0·46	14·2	+ 4·5	27	+ 9
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	58	28	49.3	35·1	42·5	+ 5·0	32	19	5	0·62	+ 0·13	*	*	*	*
	Loughborough	58	25	50·3	38·1	44·4	+ 6·3	33	11	5	0·73	+ 0·21	*	*	*	*
	Stamford (Duddington)	57	30	49·3	37·9	43·8	+ 6·6	30	11	5	0·49	− 0·01	*	*	*	*
	Cheadle Ⓜ	56	28	48·8	36·6	42·9	+ 5·9	29	15	6	0·01	+ 0·19	*	*	*	*
	Shirley (near Solihull)	56	27	50.0	38·0	44.2	+ 6·8	11	32	6	1·29	?	*	*	*	*
	Churchstoke Ⓜ	58	29	50·1	37·6	44·1	+ 5·9	33	12	6	1·92	+ 1·22	16·4	+ 7·9	32	+15
	Hereford Ⓜ	56	32	51·3	39·1	45·4	+ 6·7	36	8	6	1·40	+ 0·88	*	*	*	*
	Cirencester	56	30	50·7	38·6	44·9	+ 7·2	35	10	6	1·51	+ 0·89	7·2	− 1·8	14	− 3
	Oxford	58	30	50·3	39·6	45·2	+ 6·6	32	7	5	1·01	+ 0·54	10·5	+ 1·3	20	+ 2
5. ENGLAND, S.	London	57	31	51·6	39·9	46·0	+ 6·8	37	6	5	0·79	+ 0·31	9·0†	+ 4·2†	17†	+ 7†
	North Foreland	54	34	51·7	42·3	47·2	+ 7·1	36	0	6	0·80	?	*	*	*	*
	Dungeness	56	33	53·0	43·1	48·3	+ 7·7	44	0	4	0·73	+ 0·10	*	*	*	*
	Hastings (St. Leonards)	55	33	52·3	41·6	47·2	+ 6·1	38	1	4	0·86	+ 0·20	17·8	+ 4·9	33	+10
	Southampton	57	30	51·9	41·3	46·8	+ 6·4	37	2	5	1·21	+ 0·50	9·3	− 1·9	17	− 4
	Hurst Castle	56	34	52.6	43·7	48.3	+ 6·9	44	0	4	1·10	+ 0·47	*	*	*	*
	Shaftesbury Ⓜ	54	32	50.7	40·8	46.0	+ 9·0	33	3	7	1·85	+ 1·15	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	36	48·6	39·4	44·2	+ 3·9	26	7	6	1·75	− 0·33	*	*	*	*
	Glasgow	53	32	47·2	38·7	43·1	+ 4·9	22	9	4	0·51	− 0·39	3·4	− 0·3	7	− 1
	Ardrossan	52	34	48·1	41·3	44·8	+ 3·9	23	2	4	0·36	− 0·48	*	*	*	*
	Glenlee Ⓢ	53	29	47·4	35·5	41·7	+ 3·9	15	28	6	2·24	+ 0·82	*	*	*	*
	Gilcrux (Cumberland)	55	33	48·8	39·4	44·3	+ 6·1	27	7	6	0·64	?	? 3·1	?	? 6	?
	Douglas (Isle of Man)	54	31	50·8	40·6	45·9	+ 4·3	33	4	5	1·31	+ 0·26	8·6	− 1·4	17	− 3
7. ENGLAND, N.W.	Stonyhurst	55	32	49·1	39·1	44·3	+ 6·1	28	8	6	1·14	+ 0·06	4·7	− 2·2	9	− 4
	Blackpool Ⓜ	56	30	50·1	38·2	44·4	+ 5·0	33	11	6	1·47	+ 0.75	6·9	+ 1·3	14	+ 2
	Manchester (Prestwich)	56	30	49·4	37·7	43·8	+ 5·9	31	12	5	1·49	+ 0·67	4·1	?	8	?
	Liverpool Obsy. (Bidston)	57	34	50·1	40·3	45·4	+ 5·5	31	5	5	0·45	− 0·15	*	*	*	*
	Llandudno Ⓜ	58	35	51·7	41·3	46·7	+ 4·6	36	2	5	0·82	+ 0·12	14·1	+ 7·0	27	+13
	Holyhead	54	38	50·7	42·9	47·0	+ 3·6	35	0	6	1·34	+ 0·48	*	*	*	*
8. ENGLAND, S.W.	Llandovery	57	26	52·7	35·7	44·5	+ 6·1	44	18	5	2·27	+ 1·04	*	*	*	*
	Pembroke	54	41	52·3	45·1	48·8	+ 4·7	48	0	5	1·75	+ 0·85	8·9	− 1·1	17	− 4
	Clifton	58	35	52·2	42·4	47·5	+ 8·0	39	0	5	1·10	+ 0·40	*	*	*	*
	Arlington (N. Devon)	57	33	53·0	40.9	47·2	+ 7·1	41	3	5	1·44	+ 0·11	*	*	*	*
	Cullompton Ⓜ	58	29	53·5	41·2	47·6	+ 8·4	43	2	5	2·18	+ 1·38	11·4	+ 3·0	21	+ 6
	Falmouth	56	38	52·8	46·4	49·7	+ 5·6	54	0	5	1·98	+ 0·78	17·5	+ 5·0	32	+ 9
	Plymouth	57	34	53·5	42·7	48·3	+ 6·4	44	0	5	1·62	+ 0·74	18·4	+ 7·2	33	+12
	Prawle Point	56	36	54·0	43·0	48·7	+ 5·6	47	0	5	1·70	+ 0·86	*	*	*	*
9. IRELAND, N.	Malin Head	52	35	48·3	38·3	43·5	+ 1·7	26	10	6	0·59	?	*	*	*	*
	Londonderry	53	32	47·7	37·4	42·8	+ 2·8	25	13	6	0·50	− 0·43	*	*	*	*
	Edenfel (Omagh)	52	? 31	46·7	? 36·4	? 41·8	? + 4·1	? 13	? 25	5	0·91	+ 0·08	*	*	*	*
	Belmullet	52	35	48·7	40·3	44·7	+ 1·6	26	5	7	1·83	+ 0·63	*	*	*	*
	Markree Castle	53	28	46·2	37·6	42·1	+ 2·9	19	12	6	0·60	− 0·37	6·5	− 2·0	13	− 4
	Armagh	54	31	48·6	38·0	43·5	+ 4·9	27	11	5	0·48	− 0·15	14·5	+ 5·7	28	+10
	Donaghadee	53	30	49·9	37·0	43·7	+ 2·4	33	14	6	1·25	+ 0·60	*	*	*	*
	Edgeworthstown	56	26	48·7	34·7	42·0	+ 3·9	21	25	4	0·62	− 0·14	*	*	*	*
10. IRELAND, S.	Dublin	57	33	51·1	41·6	46·5	+ 5·3	33	1	4	0·41	− 0·11	16·0	+ 3·8	31	+ 7
	Parsonstown	54	29	49·7	35·7	43·0	+ 3·4	33	18	4	0·60	− 0·10	15·4	+ 4·4	30	+ 9
	Kilkenny	54	30	50·0	36·6	43·6	+ 2·8	34	15	6	0·83	+ 0·11	*	*	*	*
	Roche's Point	54	36	52·0	41·7	47·1	+ 3·0	37	1	5	1·69	+ 0·51	*	*	*	*
	Valencia	56	35	52·6	40·0	46·6	+ 1·3	41	6	6	2·44	+ 1·12	10·9	+ 0·9	21	+ 1
	Killarney	56	31	51·5	38·0	45·0	+ 1·8	38	11	5	2·43	?	*	*	*	*
	Foynes	52	31	49·8	38·3	44·4	+ 2·6	32	10	5	0·65	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	56	42	54·7	45·6	50·3	+ 3·4	58	0	5	1·69	+ 0·79	13·5	?	25	?
	Jersey	56	45	54·7	47·7	51·3	+ 7·4	65	0	5	0·63	− 0·22	19·4	+ 5·5	35	+10

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

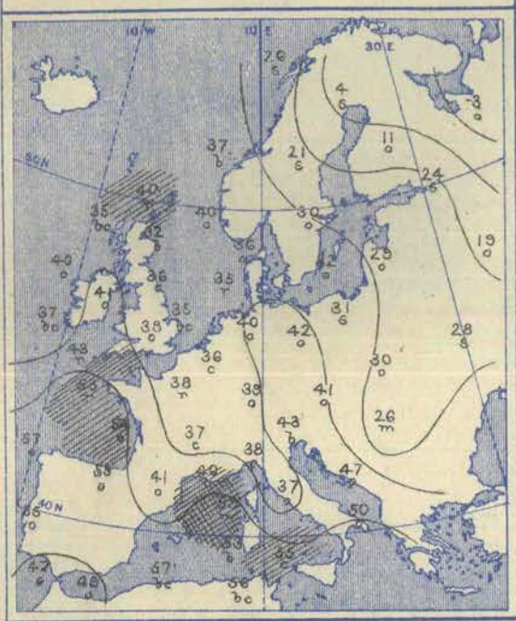
* An Asterisk is inserted in all places for which the information is not usually received.

† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 12th December.

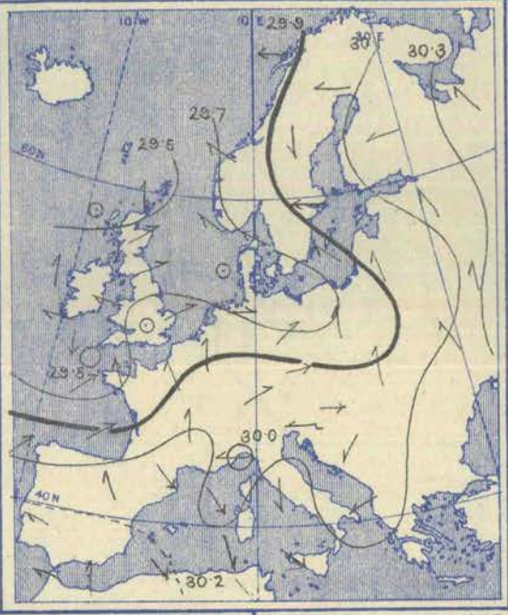
Temperature and Weather.

8 a.m.

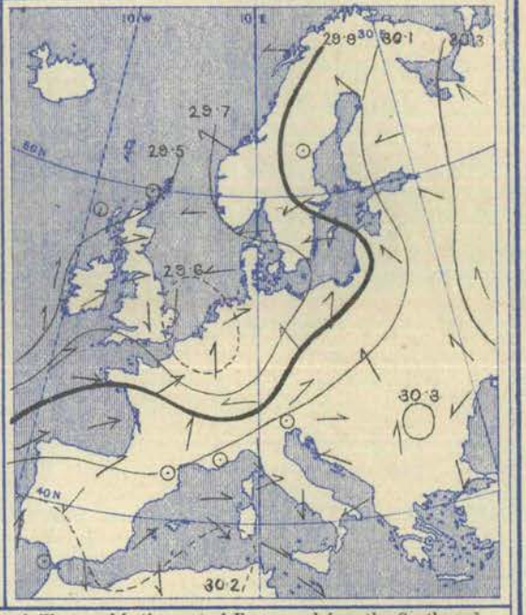


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning dull and rainy in the south of England and the north of France, fine in Ireland and the northern and eastern parts of Great Britain. Dull in most of the Continental countries with rain in Denmark and snow at Neufahrwasser, as well as at many stations in the northern parts of Russia and Scandinavia. Fine over northern Italy and the Riviera. Heavy rain falling during day over the south of England, the Netherlands, and the north of France, and smaller quantities in Germany. Lightning seen in evening at Valencia (Ireland) and rain setting in at night over the western parts of our Islands generally.

Temperature fallen in the western and northern countries, but risen elsewhere. Morning readings highest, 57° at Corunna and Algiers, 56° at La Calle and 55° at Lorient, Biarritz, Lisbon, Barcelona, and Malta. Lowest, −3° Fahr. at Archangel, +4° at Haparanda, 7° at Uleaborg, and 11° at Kuopio; below the freezing point over northern and eastern Europe generally, and also over central Ireland. Daily maxima below 50° on all but our south-west coasts. Thermometer exceeding 60° over Spain, southern Italy, and the extreme south of France. Sharp frosts occurring over Great Britain at night.

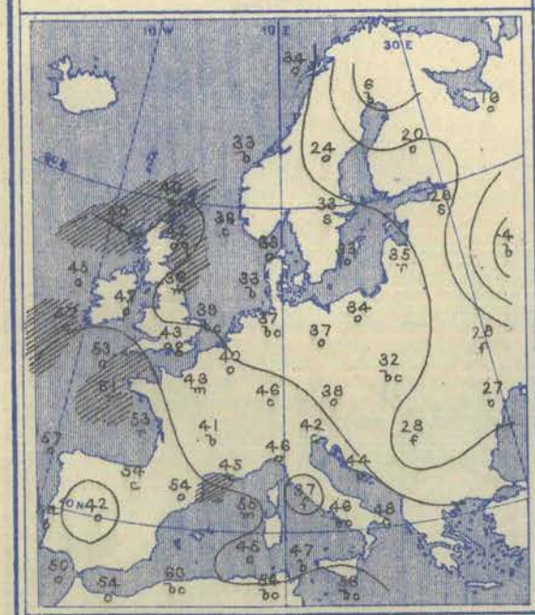
Wind fresh to strong from the South-Westward in the west of France and from the Southward in the Channel Islands; Easterly on the south coasts of England and Ireland generally but Northerly at Scilly. Light from between South and West over the northern and eastern parts of our Islands and also over the Netherlands and Germany; Easterly or South-Easterly over Denmark and the greater part of Scandinavia and northern Russia. Variable in Spain, Italy, and the south of France. Subsequently shifting to the North-Westward in the south of England; backing to the Southward in Ireland.

Barometer highest, 30·3 ins. and upwards in a large anticyclone over Russia; 30·2 ins. and upwards in another system over Spain and Algeria. Lowest, 29·5 ins. and less in a large shallow area lying to the northward of our Islands and also in two small depressions—one lying over Denmark and the other at the mouth of the English Channel. Channel depression subsequently moving eastwards to the Netherlands; new disturbance beginning to approach the Irish coasts.

Monday, 13th December.

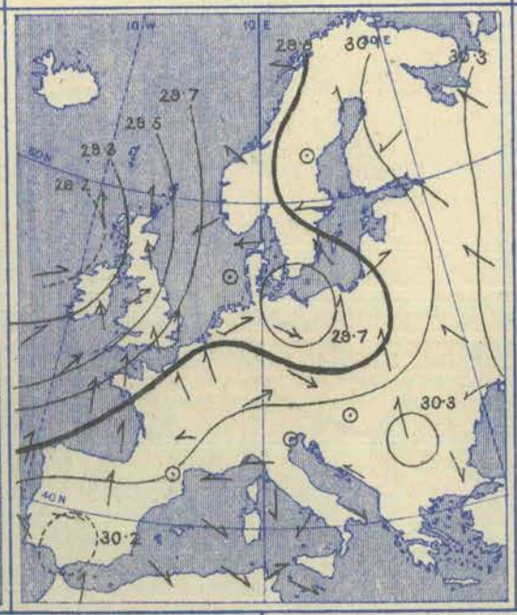
Temperature and Weather.

8 a.m.

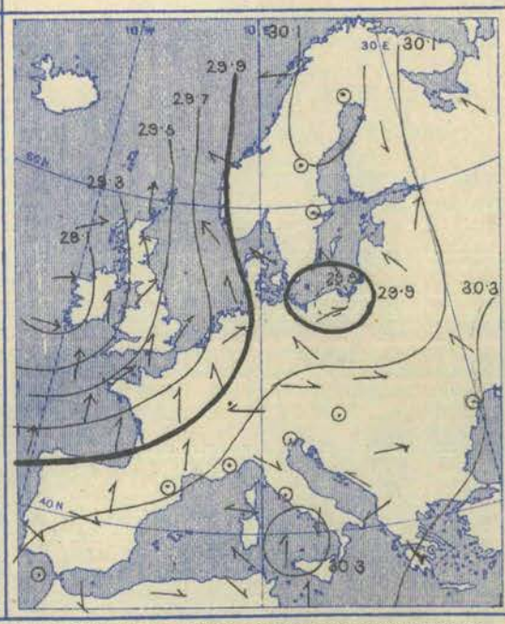


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning cloudy or dull over nearly the whole of Europe, with rain in many parts of England and France, as well as at some of the Baltic stations; snow falling at Faerder, and Stockholm, and over the Gulf of Finland. Fine over southern Italy and the central parts of Russia. Rain falling later over western Europe generally—heavily at some of the English and Irish stations. Lunar halo seen at Spurn Head.

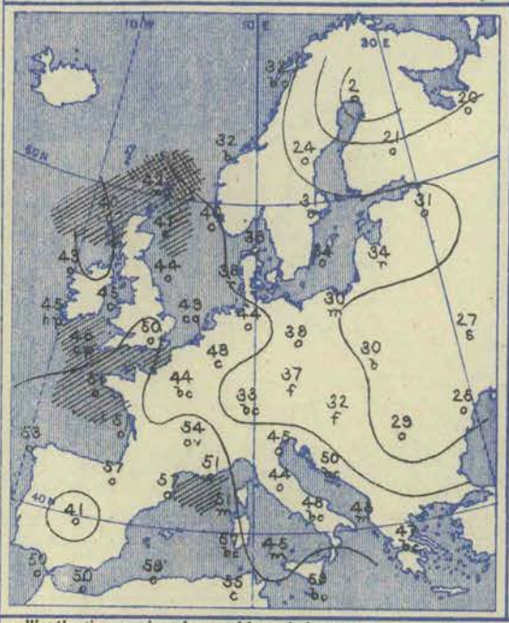
Temperature risen in our Islands, and also over Sweden, the Baltic, and northern Russia, but fallen elsewhere. Morning readings highest, 60° at Algiers, 58° at Malta, 57° at Corunna, and 56° at Palma; above 50° over the Bay of Biscay and the English Channel. Lowest, −4° Fahr. at Moscow, +6° at Uleaborg, 8° at Kharkov, and 10° at Haparanda; below the freezing point over Sweden and Russia generally, and very little above it in some parts of central England. Rising later to 50° and upwards at most of the English and Irish stations, and to 55° at Scilly; exceeding 60° in Spain, southern Italy, and the extreme south of France, and reaching 64° at Bilbao and Palermo, and 79° at Lisbon.

Wind Southerly over Great Britain, the Netherlands, and the northern and western parts of France and the Spanish Peninsula, and strong in force on several parts of our own western and northern coasts; moderate from the South-Westward in Ireland. Westerly in Germany; Southerly or South-Easterly over the western and central parts of Russia; Easterly (South-East to North-East) in Scandinavia. Variable over Spain, Italy, and the south of France. Subsequently increasing to a gale from South on many parts of our western and northern coasts, and blowing very strongly in the south and south-east.

Barometer highest, 30·4 ins. and upwards over the southern parts of central Russia; 30·1 ins. and upwards in an anticyclone extending from Russia over nearly the whole of southern Europe. Lowest, 29·2 ins. and less in a depression lying off our extreme north-west coasts; 29·6 ins. and less in a small system over Pomerania. Depression in west subsequently moving away to the northward; new disturbance moving quickly along our western coasts in evening and night. German depression continuing to move eastwards.

Tuesday, 14th December.

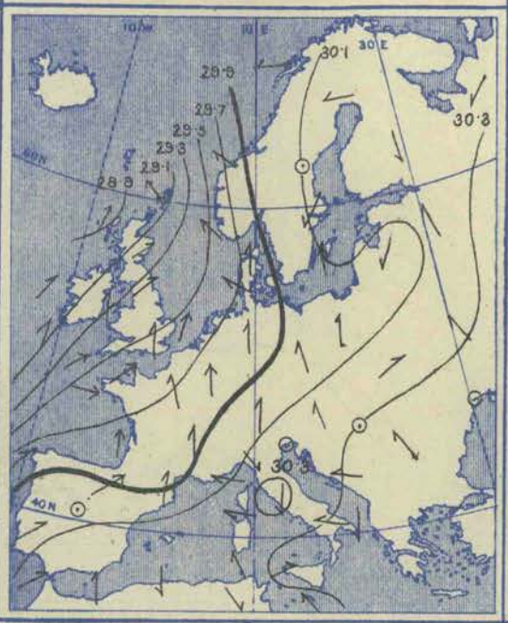
Temperature and Weather. 8 a.m.

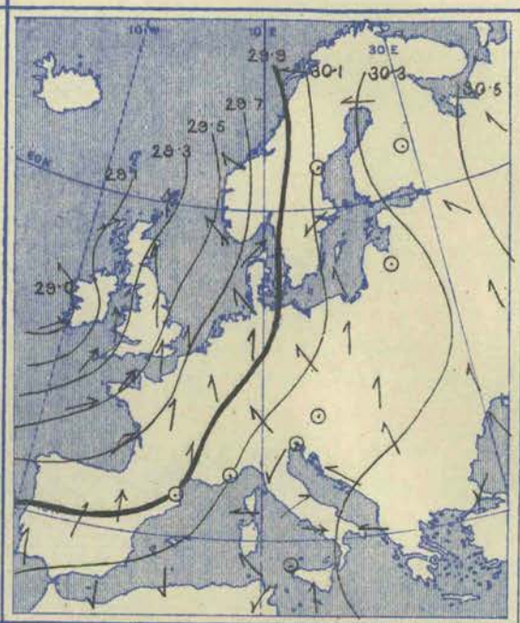


Weather in morning changeable and showery over western Europe generally, but fine on our own north-west coasts, and also in the west of Norway. Dull in most of the eastern, central, and southern countries, with rain in a few isolated places, and snow at Kiev; fog reported over south Germany. Rain falling later over nearly the whole of western Europe—heavily in places. Thunderstorms occurring at Valencia (Ireland) in morning and over the south of England generally during the evening or night.

Temperature fallen in the western parts of our Islands and France, and also over Austria and eastern Germany, but risen elsewhere. Morning readings highest, 59° at Malta and Algiers, and 58° at Bilbao and Corunna; above 50° at most of the Mediterranean and Spanish coast stations, and also in the south-east of England. Lowest, 2° at Uleaborg, 7° at Kharkov, 17° at Nicolaieff, 18° at Haparanda, below the freezing point in most parts of northern and eastern Europe, and very little above it in central Ireland. Rising during day to 50° and upwards at several of our own central and southern stations, and reaching 56° at Jersey; exceeding 60° over the southern parts of France and Italy, and reaching 68° at Palermo.

Barometer and Wind. 8 a.m. and 6 p.m.



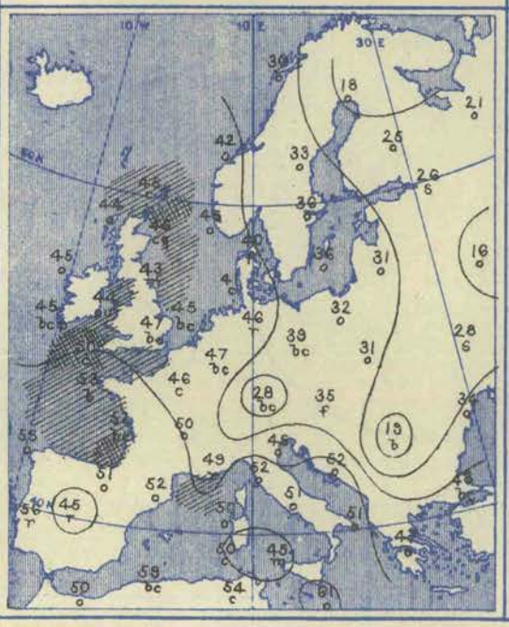


Wind moderate to strong from the Southward or South-Westward over western Europe generally, but from the South-Eastward over Germany and the eastern shores of the North Sea. Calm over the Gulf of Bothnia, light and variable over Russia, Austria, and Italy. Subsequently increasing to a gale from the South or South-West on many parts of our own south coasts; no important change occurring elsewhere.

Barometer highest, 30·4 ins. and upwards in an anticyclone lying over central Russia. Lowest, 28·9 ins. and less in a depression lying off the north-west of Scotland; gradients steep over the northern parts of the North Sea and rather steep over many parts of western Europe. Depression subsequently moving away to the northward, but new disturbance advancing to the south-west of Ireland in evening.

Wednesday, 15th December.

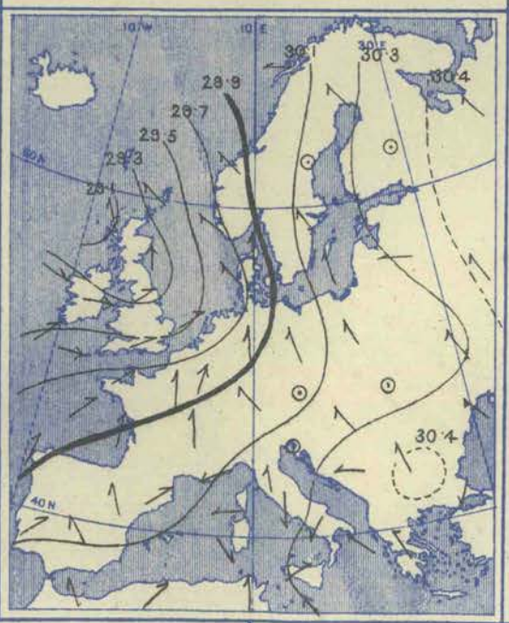
Temperature and Weather. 8 a.m.

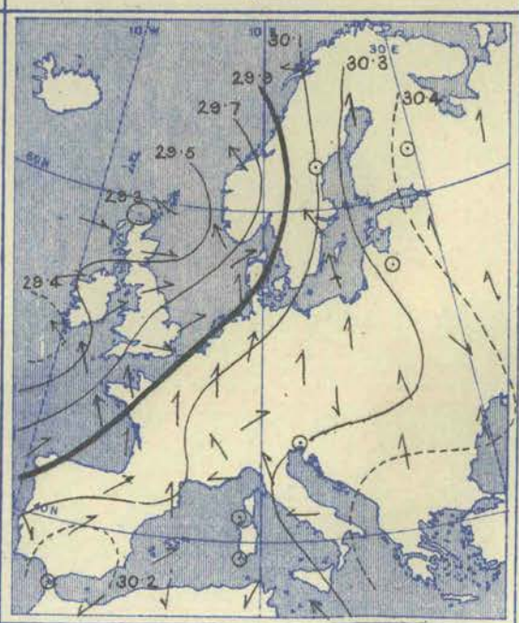


Weather in morning temporarily fine in places, but changeable and showery over our Islands generally. Fine over the Netherlands, and also in Austria; dull in most of the Continental countries, with rain in the south of Scandinavia, as well as in some parts of north Germany and central Spain; snow falling at some of the Russian stations. Rain falling later over north-western Europe generally—heavily in places. Heavy rain occurring also at Nice. Lightning seen at Scilly at night.

Temperature risen in most countries, but fallen in many parts of Germany and Austria. Morning readings highest, 61° at Malta, 59° at Algiers, and 56° at Bilbao and Lisbon; above 50° over the Bay of Biscay and the English Channel. Lowest, 16° at Moscow, 18° at Haparanda, 19° at Hermanstadt, and 21° at Kharkov; below the freezing point in most parts of northern and eastern Europe. Rising later to between 50° and 55° at most of our own central and southern stations, as well as in the west of France; exceeding 60° over Spain and the southern parts of France and Italy, and reaching 70° at Cagliari.

Barometer and Wind. 8 a.m. and 6 p.m.



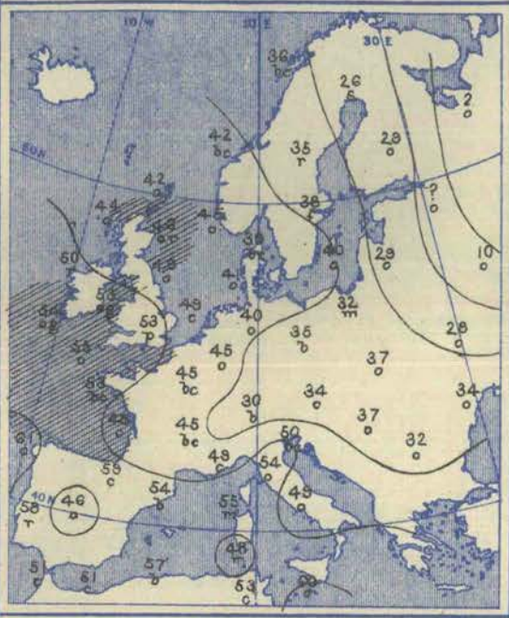


Wind moderate to strong from the Westward on most parts of our western and southern coasts, but back to South-South-West at Valencia (Ireland) strong from the Southward over the Netherlands and the east coasts of Great Britain. Light to moderate from the South-Eastward over the northern, central, and eastern parts of the Continent; variable in Italy; Southerly over France and the Spanish Peninsula. Subsequently veering to the Westward in the northern and eastern parts of Great Britain, and falling light; backing to the Southward or South-Eastward on our south-west coasts, and increasing considerably in force; increasing from the South-Eastward also in the south of Scandinavia.

Barometer highest, 30·4 ins. and upwards over Russia; 30·1 ins. in an anticyclone covering nearly the whole of eastern and southern Europe. Lowest, 29·1 ins. and less in a depression off the north-west of Scotland. Depression subsequently moving north-eastwards and filling up, but new disturbance approaching our south-west coasts in evening.

Thursday, 16th December.

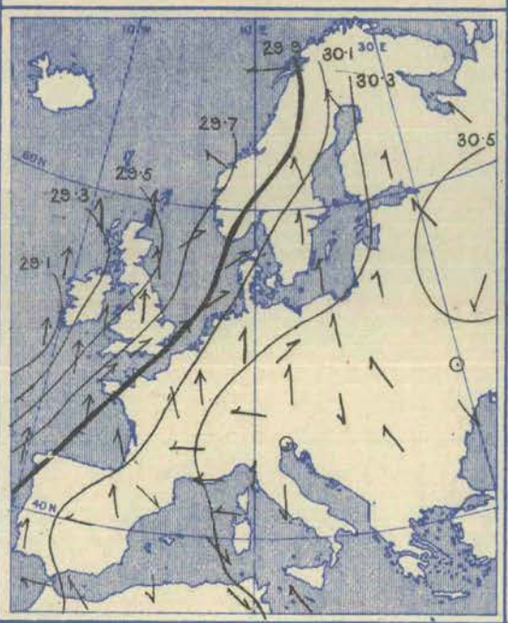
Temperature and Weather. 8 a.m.

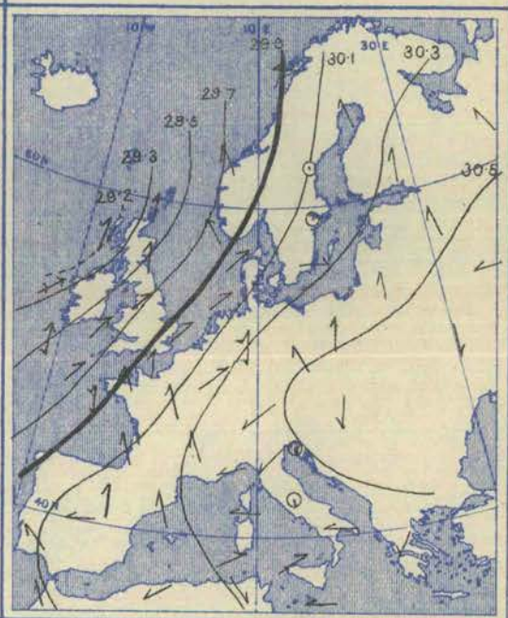


Weather in morning dull over the greater part of our Islands, with showers at several of our southern stations, and steady rain in the east of Scotland. Fine in Norway, western Germany and France, but cloudy in most other parts of the Continent, with fog in South Germany, and rain at some of the Swedish stations as well as at Lisbon; snow falling in Lapland. Sky clearing later over the eastern parts of Great Britain, but showers falling in the west and thunderstorm occurring at Malin Head. Considerable amounts of rain reported at some of the Scandinavian and Danish stations.

Temperature risen generally, but fallen in France, Germany and Italy. Morning readings highest, 62° at Bilbao, 61° at Corunna, and 60° at Malta, touching 55° at some of the English Channel stations, and above 50° over the central and southern parts of our Islands generally. Lowest, 2° at Archangel, 10° at Moscow, 13° at Kharkov, and 26° at Haparanda. Rising during day to 55° and upwards at several of the English and Irish stations, and to 58° at Loughborough and Oxford; exceeding 60° over Spain and the southern parts of France and Italy.

Barometer and Wind. 8 a.m. and 6 p.m.



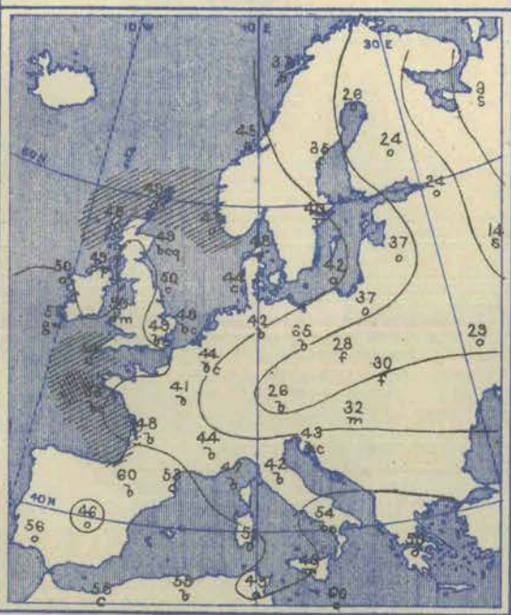


Wind Southerly over western and northern Europe generally, strong in force on many parts of our western and southern coasts, with a gale at Roche's Point. Light from the Northward in the south of Russia; variable over Italy, Austria, and the south of France. Subsequently increasing to a gale from the Southward or South-Westward in the north-west of our Islands, and also in the east of Scotland.

Barometer highest, 30·5 ins. and upwards over the northern parts of Russia; 30·2 ins. and upwards in an anticyclone embracing nearly the whole of eastern, central, and southern Europe. Lowest, 29·1 ins. and less in a deep depression off the west of Ireland. Depression subsequently moving northwards, and barometer rising briskly on our western coasts.

Friday, 17th December.

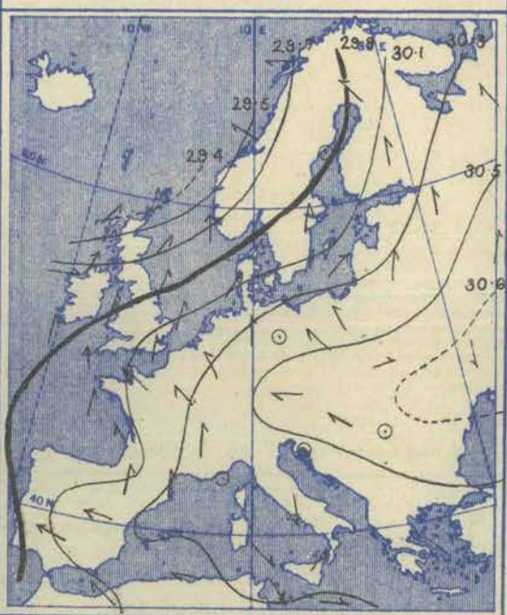
Temperature and Weather. 8 a.m.

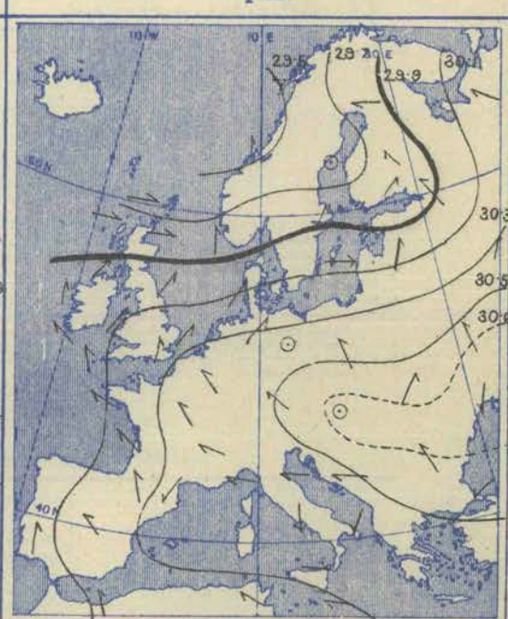


Weather in morning fine in the eastern parts of Great Britain, as well as over north Germany, the Netherlands, France, and Italy. Cloudy or dull elsewhere, with showers at some of our own western stations, and steady rain in the Shetlands and Hebrides, as well as in the Baltic Provinces and the south of Sweden; snow falling at Archangel and Moscow. Foggy over Austria and south Germany. A little rain falling later in Ireland and the north of Scotland, snow at some of the Scandinavian and Danish stations.

Temperature risen a little over the northern parts of Great Britain, as well as in Norway, Denmark, and north Germany, fallen elsewhere. Morning readings highest, (1) 60° at Biarritz, Bilbao, and Malta, and 58° at San Fernando; (2) 57° at Liverpool and 54° at Pembroke and Scilly; above 50° in many parts of England. Lowest, 9° at Archangel, 13° at Kharkov, and 14° at Moscow; below the freezing point in some parts of Austria and south Germany. Rising during day to between 50° and 55° in most parts of our Islands, and to 57° in London and at Loughborough and Liverpool. Exceeding 60° in the south of France, and touching 72° at La Calle.

Barometer and Wind. 8 a.m. and 6 p.m.



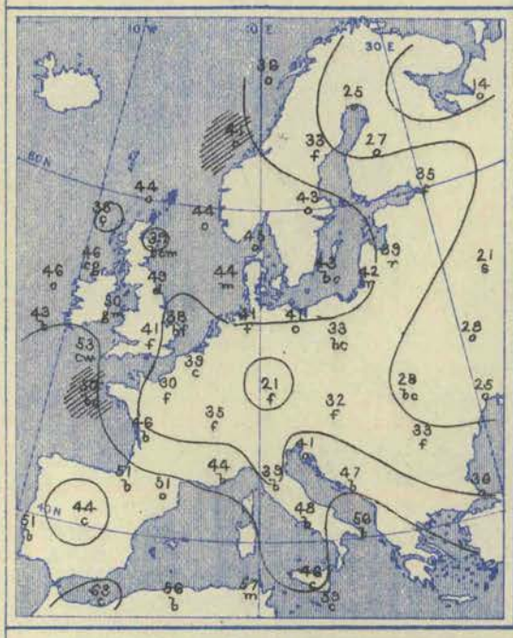


Wind Easterly or South-Easterly over France and the Spanish Peninsula, with a gale at San Fernando. Light to moderate from the Southward over England, the Netherlands, and Germany; South-Westerly over the northern part of our Islands, Denmark, and the south of Sweden; South-Easterly or Easterly over the northern parts of Scandinavia. Light from the Northward in the south of Russia, calm in Austria, variable in Italy. No important change occurring later.

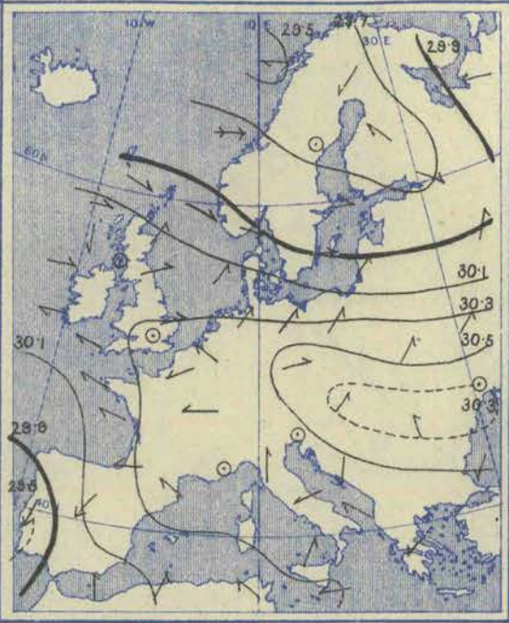
Barometer highest, 30·6 ins. and upwards over the south of Russia; 30·2 ins. and upwards in an anticyclone lying over nearly the whole of eastern, central, and southern Europe. Lowest, 29·4 ins. and less in a depression lying to the northward of Scotland. Anticyclone spreading later over the south-eastern parts of our Islands; depression in north travelling north-eastwards.

Saturday, 18th December.

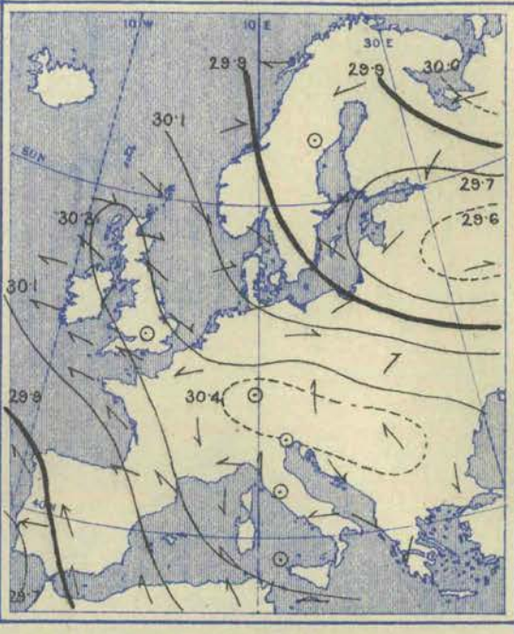
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over southern and south-western Europe, the Bay of Biscay, Ireland, Scotland and the Netherlands; dull elsewhere—very quiet and foggy over the southern half of England as well as over western Germany, Austria, Hungary, and the Gulf of Finland. Much wet fog over England all day, some rain over Belgium, and considerable quantities over Norway and Lapland.

Temperature giving way decidedly over our Islands and France. Morning readings highest, 63° at Nemours; 59° at Malta; 56° at Algiers and Brindisi; 53° at Scilly; 50 at Brest, Roches Point and Holyhead; 48° at Valencia (Ireland); Lowest (1) 14° at Archangel; 25° at Haparanda; 27° at Kuopio; (2) 16° at Kharkov; 21° at Odessa and Moscow; (3) 21° at Munich; 30° at Prague; 31° at Wiesbaden. Rising later to between 56° and 50° in several parts of England, Ireland and France, and touching 63° at Biarritz; 64° at Corunna.

Wind was—(1) light and anticyclonic over South-Eastern and central Europe as a whole, as well as over England; (2) South-Easterly to Easterly on our south-western coasts and over the Bay of Biscay, North-Easterly over Spain; (3) Westerly, light, over Scotland and Scandinavia; South-Westerly over the Baltic and South-Easterly to Easterly over Finland and Lapland. Light air becoming more general over Great Britian later, little change elsewhere.

Barometer highest, 30·6 ins. and more to 30·3 ins. in an anticyclone covering south-eastern, southern and central Europe, and exceeding 30·2 ins. in a ridge spreading north-westwards over England and Ireland. Lowest 29·5 ins. and less over Finmark, and below 29·8 ins. over the south of Portugal. Rising quickly over Scotland later, but falling a little at our south-western stations as well as over France and the Iberian Peninsula.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line bein given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: →»→ = a heavy gale →→ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

At the commencement of the week the barometer remained high both over Russia and also over south-western Europe, the weather in the north-western countries being influenced partly by a large shallow depression lying off the north of Scotland, and partly by a small disturbance which moved quickly eastwards along the English Channel to the Netherlands, and eventually to the Baltic Provinces, where it dispersed. The passage of the latter system was marked by heavy rains, but the winds experienced were light or moderate in force.

The high-pressure area in the south-west now gave way, and for the next four or five days the weather was influenced by large depressions which moved in quick succession northwards along our extreme western coasts. These occasioned gales or very strong winds from the South and South-West over nearly the whole of our Islands, with frequent, and in many cases, heavy falls of rain in the west and north, and with less decided amounts elsewhere.

Towards the close of the week, however, the series of depressions came to an end, while the anticyclone over Russia spread slowly westwards, the borders of the system reaching England on the 17th, and ultimately extending over the entire Kingdom. The wind now fell light and shifted to the Westward on our northern coasts, and to East or South-East in the south, while the weather showed a tendency to improve, a good deal of cloud or wet fog being, however, experienced in many parts of the United Kingdom.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 296.

STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	STATIONS.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	3·0	− 3·0	6	− 6	EASTBOURNE	15·7	+ 3·7	29	+ 6
OSWALDKIRK (Yorkshire)	1·9	− 6·5	4	−12	VENTNOR HOSPITAL	16·8	?	31	?
WORKSOP	3·4	− 4·4	7	− 8	SOUTHPORT	7·5	?	15	?
THURCASTON (Leicestershire)	11·1	+ 3·8	21	+ 7	COLWYN BAY	14·4	?	28	?
MARGATE	11·6	+ 0·5	21	+ 1	TENBY	11·0*	+ 0·7	21*	+ 1
WESTBOURNE (Sussex)	18·0*	+ 7·1	33*	+13	NEWQUAY				
BRIGHTON	17·1	+ 6·1	32	+11	TORQUAY	19·0*	+ 7·3	35*	+13
					GUERNSEY	16·4*	+ 6·2	29*	+11

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder.

WYMAN & SONS, LTD., LITH., 63, CARTER LANE.

WEEKLY WEATHER REPORT.

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VOL. XIV No. 51.] *Third Series.* WEEK ENDING SATURDAY, DECEMBER 25TH, 1897. [*Price 6d.* *Annual Subscription post paid £1 10s. 0d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 302.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	51	14	38·4	27·7	33·2	5 below	0	- 7	62	+32	2164	+195	821	+ 14
	1. SCOTLAND, EAST	49	12	38·3	25·1	32·0	5 below	0	- 6	70	+32	2391	+ 35	905	+ 27
	2. ENGLAND, N.E.	50	21	40·8	30·9	36·0	2 below	0	- 8	42	+10	2676	+106	606	- 98
	3. ENGLAND, EAST	47	20	40·4	30·1	35·4	2 below	0	- 9	46	+ 9	3103	+134	679	-119
	4. MIDLAND COUNTIES	53	19	38·5	29·7	34·3	3 below	0	-10	54	+17	3014	+ 72	693	-127
	5. ENGLAND, SOUTH	49	26	43·3	34·9	39·2	0 (average)	4	-11	26	- 1	3526	+259	375	- 214
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	51	19	41·0	32·0	36·7	3 below	0	-12	37	+13	2647	+133	544	- 61
	7. ENGLAND, N.W.	48	22	41·4	33·1	37·4	2 below	0	-12	32	+ 7	2944	+188	444	-131
	8. ENGLAND, S.W.	52	25	44·8	37·1	41·1	0 (average)	8	-11	20	+ 2	3370	+268	282	-153
	9. IRELAND, NORTH	53	27	45·9	37·0	41·7	2 above	11	- 2	22	- 1	2731	+ 85	501	- 20
	10. IRELAND, SOUTH	54	34	48·7	42·5	45·7	4 above	26	+ 5	0	-18	3295*	+249	281	-116
	—CHANNEL ISLANDS—	55	32	47·5	40·6	44·2	1 below	21	-10	4	- 1	4040	+416	72	- 92

Rainfall.

	DISTRICTS. (See p. 302.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	1	1	12 less	224	-16	43·7	- 5·5
	1. SCOTLAND, EAST	1	less than ½	6 less	198	+ 3	28·5	- 3·0
	2. ENGLAND, N.E.	0	—	5 less	179	- 5	23·9	- 2·2
	3. ENGLAND, EAST	0	—	5 less	168	-13	22·6	- 3·2
	4. MIDLAND COUNTIES	0	—	6 less	172	- 5	26·6	- 1·4
	5. ENGLAND, SOUTH	0	—	6 less	162	-10	25·7	- 3·3
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	1	1	12 less	215	+10	44·1	- 4·6
	7. ENGLAND, N.W.	0	—	8 less	193	0	36·0	+ 1·3
	8. ENGLAND, S.W.	0	—	10 less	199	+ 3	42·3	+ 3·2
	9. IRELAND, NORTH	1	less than ½	8 less	227	+ 4	38·9	+ 1·7
	10. IRELAND, SOUTH	1	1	8 less	212	+10	45·2*	+ 7·0
	—CHANNEL ISLANDS—	0	—	8 less	211	+ 2	35·0	+ 1·7

Bright Sunshine.

	DISTRICTS. (See p. 302.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	+ 3	15	+ 7	1237	+188	28	+ 4
	1. SCOTLAND, EAST	10	+ 3	21	+ 7	1350	+ 82	31	+ 2
	2. ENGLAND, N.E.	7	- 3	14	- 6	1428	+146	32	+ 3
	3. ENGLAND, EAST	12	+ 2	23	+ 4	1601	+ 82	37	+ 2
	4. MIDLAND COUNTIES	11	+ 3	21	+ 5	1508	+138	35	+ 4
	5. ENGLAND, SOUTH	24	+14	45	+26	1692	+ 99	39	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	- 5	14	- 9	1397	+ 24	31	0
	7. ENGLAND, N.W.	14	+ 8	27	+15	1512	+140	34	+ 3
	8. ENGLAND, S.W.	19	+ 8	36	+15	1630*	- 2	38	0
	9. IRELAND, NORTH	13	+ 5	26	+10	1287	+ 28	30	+ 1
	10. IRELAND, SOUTH	13	+ 2	25	+ 4	1430	- 2	33	0
	—CHANNEL ISLANDS—	27	+20	47	+35	1738	-101	41	- 2

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather during this week was generally fine, dry, and cold over Great Britain ; a good deal of fog prevailed at times over the inland parts of England. Over Ireland the conditions were as a whole fine, dry, and mild.

Temperature was below the mean in Scotland and nearly all parts of England, but just equal to it in England S. and S.W. In the north and east of Scotland the deficit was as much as 5°. Over Ireland the average for the week varied from 2° to 4° above the normal. The highest of the maxima were recorded on the 19th over England, but on the 25th in most parts of Ireland and Scotland ; they ranged from 55° in the Channel Islands, and 54° in Ireland S. to 47° in England E. At some of the northern Scotch stations the daily maxima were on several occasions below 32°. The lowest of the minima were registered between the 21st and 24th, and ranged from 12° in Scotland E. (at Nairn), 14° in Scotland N. (at Lairg), and 19° in the Midland Counties and Scotland W., to 32° in the Channel Islands, and 34° in Ireland S. The mean of the minima was as low as 17·4° at Nairn, and 19·2° at Lairg.

Rainfall was entirely absent from most districts, but slight amounts were measured at some of the western and northern stations towards the end of the week.

Bright Sunshine exceeded the mean in all districts excepting England N.E. and Scotland W. ; the excess being very large in the south and south-west. The percentage of the possible duration ranged from 47 in the Channel Islands, and 45 in England S., to 36 in England S.W., 25 or 26 in Ireland, 15 in Scotland N., and to 14 in England N.E. and Scotland W. The highest percentages recorded at any individual stations were 70 at Jersey, 61 at Westbourne, and 59 at Hastings.

Barometer and Wind.—The distribution of barometric pressure was anticyclonic throughout almost the whole of the period. Light Easterly winds, occasionally sinking to a calm, prevailed in the east and south-east, and moderate to fresh or strong South-Easterly winds in all the western and south-western parts of the Kingdom. Towards the end of the week, however, as some depressions approached our south-western coasts the anticyclone moved eastwards and south-eastwards, and the wind increased to the force of a moderate gale at many of our south-western and western stations.

* This value has been altered owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 301 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit. Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches				
0. SCOTLAND, N.	Sumburgh Head	47	37	45·0	38·0	41·6	+ 2·5	8	17	2	0·02	− 0·95	*	*	*	*
	Stornoway	50	27	42·6	31·0	37·0	− 1·9	2	40	2	0·05	− 1·23	8·6	+ 2·8	20	+ 7
	Wick	47	24	42·0	30·3	36·4	− 0·7	0	39	0	—	− 0·69	*	*	*	*
	Lairg Ⓢ	48	14	32·3	19·2	26·0	−10·2	0	112	1	0·07	− 0·83	*	*	*	*
	Glencarron Ⓢ	49	21	34·9	24·3	29·8	− 6·8	0	85	1	0·17	− 2·04	*	*	*	*
	Fort Augustus Ⓢ	49	18	34·4	23·0	28·9	− 8·8	0	92	2	0·23	− 0·88	2·5	+ 0·9	6	+ 2
	Fort William Ⓢ	51	21	37·4	27·9	32·8	− 6·0	0	64	1	0·22	− 1·90	8·2	+ 5·7	18	+12
1. SCOTLAND, E.	Nairn	49	12	34·3	17·4	26·2	−11·0	0	111	0	—	− 0·42	*	*	*	*
	Aberdeen	46	23	40·9	30·0	35·7	− 1·5	0	44	1	0·01	− 0·65	5·2	− 3·8	12	− 8
	Braemar Ⓢ	43	16	34·9	21·6	28·5	− 5·7	0	95	1	0·03	− 0·65	16·3†	+11·5†	36†	+26†
	Ochtertyre Ⓢ	48	22	37·7	26·1	32·1	− 4·3	0	69	1	0·08	− 0·89	*	*	*	*
	Leith	49	22	41·0	26·6	34·1	− 4·8	0	55	0	—	− 0·40	*	*	*	*
	Marchmont Ⓢ	43	24	41·0	29·0	35·2	− 1·0	0	48	3	0·05	− 0·60	10·0	+ 2·5	21	+ 5
2. ENGLAND, N.E.	Alnwick Castle	50	21	44·3	25·3	35·0	− 2·9	6	61	0	0·01	− 0·64	*	*	*	*
	Durham	43	22	37·5	28·9	33·4	− 3·3	0	60	0	0·01	− 0·59	3·4	− 7·6	7	− 13
	Shields	45	26	40·0	30·6	35·5	− 3·0	0	46	0	—	− 0·50	*	*	*	*
	Scarborough Ⓜ	49	28	42·6	33·8	38·4	+ 0·3	2	31	0	—	− 0·60	11·5	?	23	?
	York	46	24	38·6	29·9	34·4	− 2·8	0	53	0	—	− 0·50	? 6·5	? + 0·5	? 13	? + 1
	Spurn Head	45	32	41·9	36·7	39·4	+ 0·5	0	18	0	—	− 0·43	*	*	*	*
3. ENGLAND, E.	Hillington Ⓜ	45	24	39·5	29·9	34·9	− 1·8	0	50	0	0·03‡	− 0·49	16·6	+ 7·3	33	+15
	Yarmouth	45	28	40·7	33·3	37·2	− 0·7	0	34	0	—	− 0·55	*	*	*	*
	Geldeston	47	21	41·6	29·8	35·9	− 2·1	0	43	0	0·01‡	− 0·44	13·5	+ 2·5	25	+ 4
	Cambridge	46	20	40·4	28·3	34·6	− 2·6	0	52	0	—	− 0·40	8·9	− 0·4	17	− 1
	Rothamsted	45	22	39·6	29·2	34·6	− 2·8	0	52	0	0·04‡	− 0·50	9·5	− 0·3	18	0
4. MIDLAND COUNTIES	Harrogate Ⓜ															
	Bawtry (Hesley Hall)	43	19	37.3	26·9	32·3	− 4·7	0	68	0	—	− 0·42	*	*	*	*
	Loughborough	46	20	39·7	30·0	35·0	− 2·4	0	49	0	—	− 0·50	*	*	*	*
	Stamford (Duddington)	45	20	37·1	28·7	33·1	− 3·5	0	62	0	0·03‡	− 0·45	*	*	*	*
	Cheadle Ⓜ	44	28	38 1	32·0	35·2	− 1·4	0	48	0	—	− 0·71	*	*	*	*
	Shirley (near Solihull)	44	21	38.8	30·0	34.6	− 2·1	0	52	0	—	?	*	*	*	*
	Churchstoke Ⓜ	44	23	39·0	30·2	34·8	− 3·0	0	50	0	—	− 0·70	17·5	+ 9·0	34	+17
	Hereford Ⓜ	45	22	37·5	29·9	33·9	− 4·3	0	57	0	—	− 0·51	*	*	*	*
	Cirencester	53	23	39·7	30·4	35·2	− 2·0	0	48	0	—	− 0·62	? 10·2	? + 0·7	? 19	? − 1
	Oxford	45	21	39·1	29·6	34·5	− 3·7	0	53	0	—	− 0·44	9·6	0·0	18	0
5. ENGLAND, S.	London	46	26	40·7	32·0	36·5	− 2·5	0	39	0	—	− 0·49	0·8†	− 4·0†	2†	− 7†
	North Foreland	46	35	43·4	36·9	40·3	+ 1·0	4	20	0	—	?	*	*	*	*
	Dungeness	49	34	45·4	36·6	41·2	+ 1 3	10	23	0	—	− 0·60	*	*	*	*
	Hastings (St. Leonards)	49	31	43·4	35·5	39·6	− 0·7	4	25	0	—	− 0·65	32·1	+19·1	59	+35
	Southampton	46	28	43·7	32·5	38·3	− 1·7	5	36	0	0·01‡	− 0·70	30·2	+19·0	56	+35
	Hurst Castle	48	33	45.1	37·6	41.5	+ 0·6	9	19	0	—	− 0·64	*	*	*	*
	Shaftesbury Ⓜ	49	29	41.2	33·1	37.3	+ 1·1	0	33	0	—	− 0·68	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	51	29	42·7	33·8	38·4	− 1·7	2	30	1	0·20	− 1·82	*	*	*	*
	Glasgow	46	25	37·8	29·3	33·7	− 4·7	0	58	1	0·01	− 0·89	0·0	− 4·0	0	− 8
	Ardrossan	49	28	40·3	31·9	36·3	− 4·0	0	40	1	0·01	− 0·85	*	*	*	*
	Glenlee Ⓢ	47	19	38·9	25·2	32·3	− 5·1	0	68	1	0·20	− 1·24	*	*	*	*
	Gilcrux (Cumberland)	45	24	40·5	31·3	36·1	− 1·6	0	41	1	0·06	?	16·2	?	34	?
	Douglas (Isle of Man)	48	36	45·5	40·4	43·1	+ 2·0	14	4	1	0·14	− 0·91	4·1	− 5·3	8	−10
7. ENGLAND, N.W.	Stonyhurst	47	22	40·4	32·0	36·4	− 1·3	0	39	0	—	− 1·05	7·7	+ 1·4	15	+ 3
	Blackpool Ⓜ	45	25	39·7	31·0	35·5	− 3·2	0	46	0	—	− 0·70	5·2	− 0·6	10	− 1
	Manchester (Prestwich)	44	25	40·5	30·3	35·6	− 1·3	0	45	0	—	− 0·80	8·2	?	16	?
	Liverpool Obsy. (Bidston)	45	29	39·1	33·9	36·6	− 3·2	0	38	0	—	− 0·58	*	*	*	*
	Llandudno Ⓜ	48	30	44·7	34·7	39·9	− 1·7	8	29	0	—	− 0·70	28·2	+21·2	55	+42
	Holyhead	48	31	44·0	36·4	40·4	− 2·6	6	22	0	—	− 0·85	*	*	*	*
8. ENGLAND, S.W.	Llandovery	47	25	43·0	29·6	36·6	− 1·6	3	46	0	—	− 1·23	*	*	*	*
	Pembroke	50	36	45·4	40·4	43·0	− 0·3	14	4	0	—	− 0·90	20·1	+ 9·7	38	+18
	Clifton	46	28	38·9	32·9	36·0	− 3·2	0	42	0	—	− 0·70	*	*	*	*
	Arlington (N. Devon)												*	*	*	*
	Cullompton Ⓜ	47	26	44·0	32·2	38·3	− 0·2	6	37	0	‡0·02	− 0·78	24·3	+15·5	45	+29
	Falmouth	52	42	48·2	44·2	46·3	+ 2·5	30	0	0	—	− 1·20	12·9	+ 0·1	23	0
	Plymouth	50	36	47·4	38·5	43·1	+ 0·9	22	10	0	—	− 0·85	24·3	+12·6	44	+23
	Prawle Point	49	39	46·7	41·7	44·3	+ 1·7	17	1	0	—	− 0·83	*	*	*	*
9. IRELAND, N.	Malin Head	50	34	45·1	37·1	41·3	− 0·3	9	21	0	—	?	*	*	*	*
	Londonderry	50	32	45·0	36·6	41·0	+ 1·4	8	22	1	0·01	− 0·90	*	*	*	*
	Edenfel (Omagh)	51	29	44·0	35·7	40·0	+ 2·7	6	25	1	0·02	− 0·80	*	*	*	*
	Belmullet	52	35	47·7	39·1	43·6	+ 0·5	23	8	2	0·02	− 1·18	*	*	*	*
	Markree Castle	52	29	45·0	37·1	41·2	+ 2·2	8	20	0	—	− 0·96	9·7	+ 1·7	20	+ 5
	Armagh	51	28	45·4	35·8	40·8	+ 2·6	10	25	0	—	− 0·67	15·7	+ 7·7	31	+15
	Donaghadee	50	38	46·4	41·3	44·0	+ 3·2	17	2	1	0·01	− 0·66	*	*	*	*
	Edgeworthstown	? 53	27	? 48·6	33·3	41·3	? + 2·6	? 18	? 38	0	—	− 0·72	*	*	*	*
10. IRELAND, S.	Dublin	54	34	47·4	39·9	43·8	+ 2·7	21	6	0	—	− 0·55	15·2	+ 3·4	30	+ 7
	Parsonstown	52	34	47·1	39·0	43·2	+ 3·9	21	8	1	0·05	− 0·63	13·0	+ 2·9	25	+ 5
	Kilkenny	51	36	46·6	39·9	43·4	+ 3·1	19	6	2	0·19	− 0·57	*	*	*	*
	Roche's Point	52	45	50·1	46·4	48·3	+ 4·6	44	0	2	0·44	− 0·74	*	*	*	*
	Valencia	54	41	51·6	45·7	48·8	+ 3·7	48	0	1	0·03	− 1·37	10·2	+ 0·2	19	0
	Killarney	54	44	50·2	45·2	47·8	+ 4·8	41	0	2	0·16	?	*	*	*	*
	Foynes	52	34	47·8	41·4	44·7	+ 3·5	21	2	1	0·04	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	40	51·1	44·1	47·7	+ 1·1	40	0	0	—	− 0·85	16·2	?	29	?
	Jersey	50	32	43·9	37·0	40·6	− 2·6	5	20	0	‡0·01	− 0·82	39·4	+25·2	70	+45

Stations marked Ⓜ are in connection with the Royal Meteorological Society, and those marked Ⓢ with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

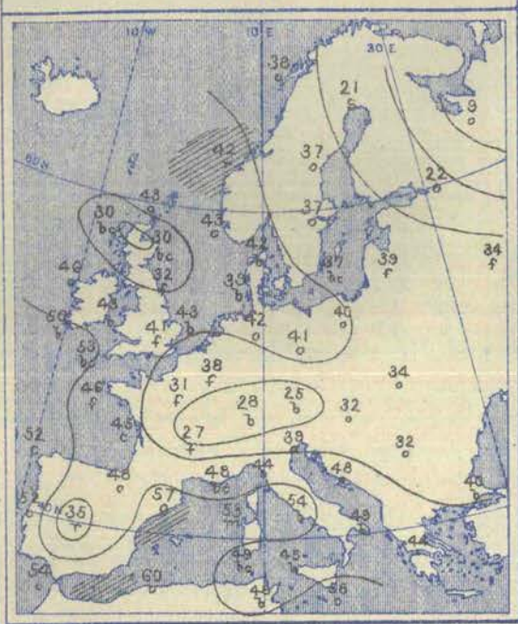
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

‡ Fog or dew.

Sunday, 19th December.

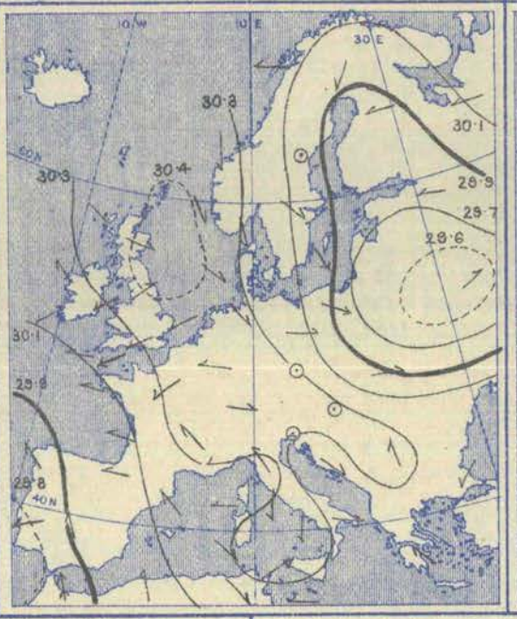
Temperature and Weather.

8 a.m.

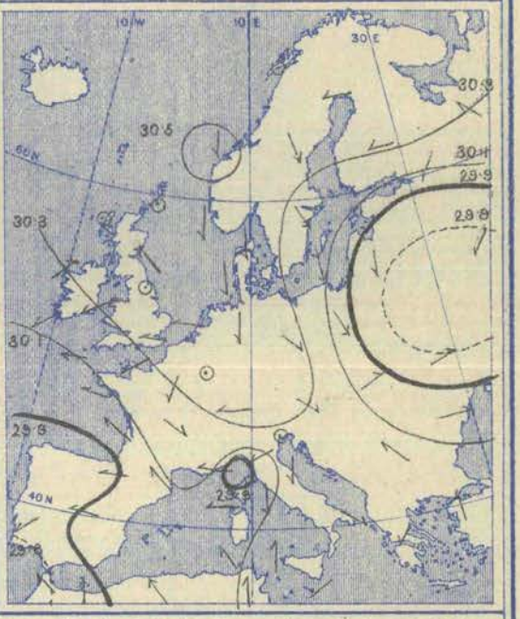


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine on the north and east coasts of Great Britain, but dull at our western and southern stations, and foggy in London. Fine in Denmark and the south of Scandinavia, as well as in Italy and the southern parts of France and Germany; cloudy or dull in other parts of the Continent, with rain at Christiansund, Helsingfors and Memel; snow falling in Lapland. Scarcely any change occurring in our Islands later, but rain falling in Spain and the extreme south of France, and snow at many of the Russian stations.

Temperature fallen generally, but risen in Ireland as well as in Austria and the south of Russia. Morning readings highest, 66° at Nemours, 60° at Oran and Algiers, and 58° at Malta; above 50° at most of the Mediterranean and Spanish coast stations, as well as at Scilly. Lowest, 9° at Archangel, 21° at Haparanda, and 22° at Uleaborg and St. Petersburg; below the freezing point in Scotland, and also over central France. Rising during day to between 50° and 55° on our own extreme south-west coasts, but remaining below 40° in several parts of Scotland. Exceeding 55° in the south of France, and exceeding 60° in some parts of Spain and southern Italy. Hard frost over central Scotland at night.

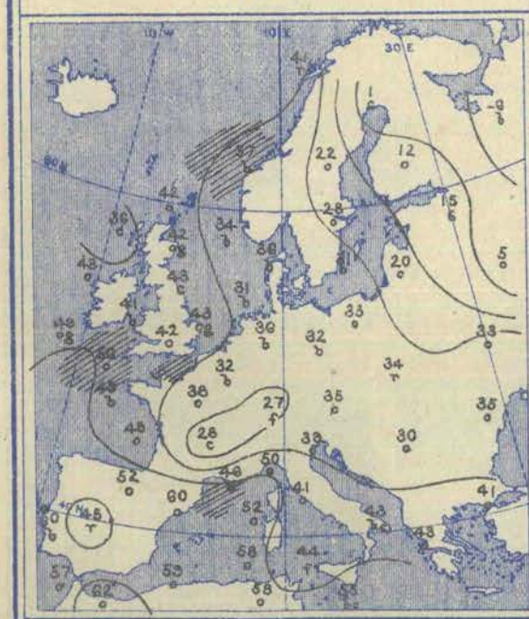
Wind light to fresh from the Eastward or South-Eastward over France, Spain, and all the more western and southern parts of our Islands, but Westerly on the north and north-east coasts of Great Britain. Light to moderate from the Northward or North-Westward over Scandinavia, Denmark and the Baltic, from the Westward in Germany, and from the South-Westward over the central and southern parts of Russia; calm or variable in Austria; Northerly over the central parts of Italy and the Adriatic. No important change occurring in our Islands later, but wind shifting to the Eastward or North-Eastward over the northern and central parts of Russia, and blowing a gale from North at Wisby.

Barometer highest, 30·4 ins. and upwards over the North Sea and the north-eastern parts of Great Britain; 30·3 ins. and upwards in an anticyclone embracing a considerable portion of western and central Europe and extending southwards over Italy. Lowest, 29·6 ins. and less in a well-marked depression over central Russia; 29·8 ins. and less in a shallow disturbance off the Portuguese coasts. Russian depression moving southwards later and partially filling up, but rather deep depression forming over the Gulf of Genoa.

Monday, 20th December.

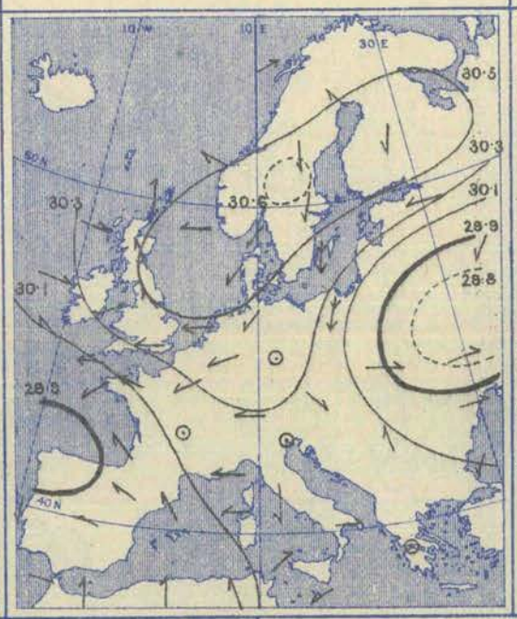
Temperature and Weather.

8 a.m.

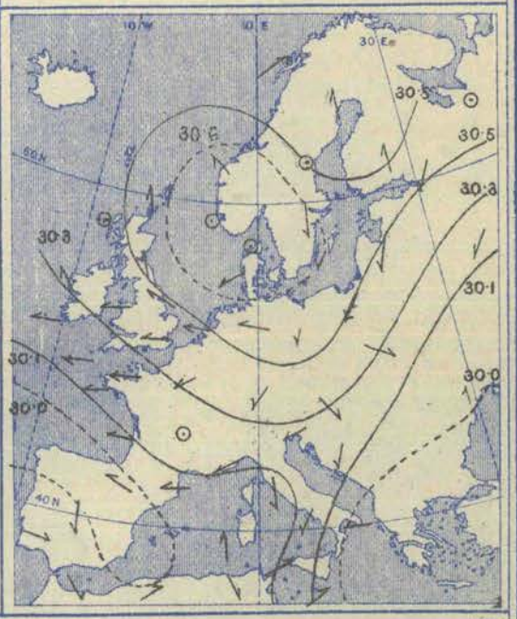


Barometer and Wind.

8 a.m.



6 p.m.



Weather in morning fine and bright in Portugal, Brittany, and many of the western and northern parts of our Islands; dull elsewhere, unsettled over south-eastern Europe, with rain in places, as well as over central Spain and the south-western parts of France. Rain or snow falling later in the extreme north of Europe, and rain in the southern parts of France and Italy—more than 1·8 ins. at Perpignan.

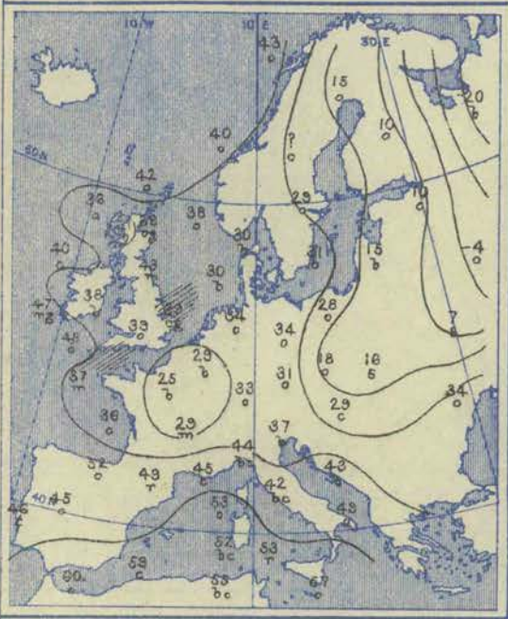
Temperature inclined to decrease. Morning readings highest, 62° at Nemours, 60° at Barcelona, 55° at Malta and Perpignan; 52° at Biarritz, 50° at Scilly. Lowest, (1) −6° Fahr. at Archangel, +1° at Uleaborg, 5° at Moscow, 15° at St. Petersburg, 20° at Riga, 21° at Karlstad; (2) 26° at Wiesbaden, 28° at Lyons, 32° at Brussels; (3) 25° (locally) at Nairn. Falling considerably over England during the following night, and remaining very frosty at Nairn.

Wind light and anticyclonic over Finland, Scotland, and the greater part of Scandinavia, as well as over western Germany, the east of France, and Italy. Strong to a gale from North-East on the north German coasts; moderate from North-West over Austria, and light from between West and South over the southern parts of Russia. Easterly to South-Easterly over France, England, and Ireland, and blowing strongly in the Channel and on the east coast of Ireland.

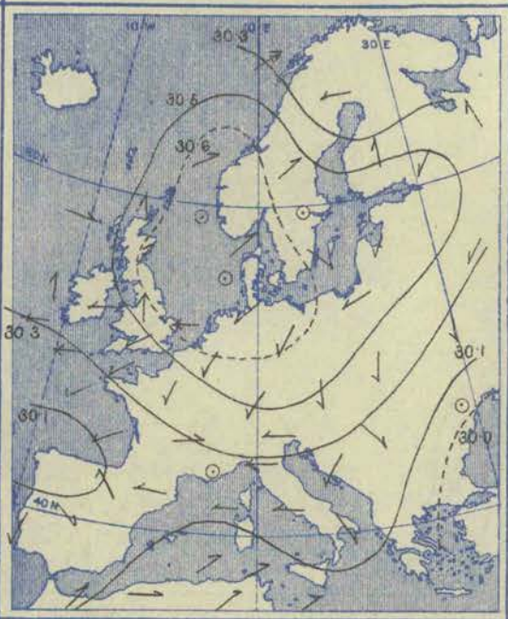
Barometer highest, 30·60 ins. at Hernösand, 30·3 ins. and upwards in an anticyclone embracing the greater part of northern and central Europe, and extending over all but the south-western parts of our Islands. Lowest, 29·8 ins. and less in a depression over the south of Russia; 30·0 ins. and less in a large shallow area over the Spanish Peninsula and the Bay of Biscay. No important change occurring over western Europe later, but anticyclone in north increasing somewhat in intensity.

Tuesday, 21st December.

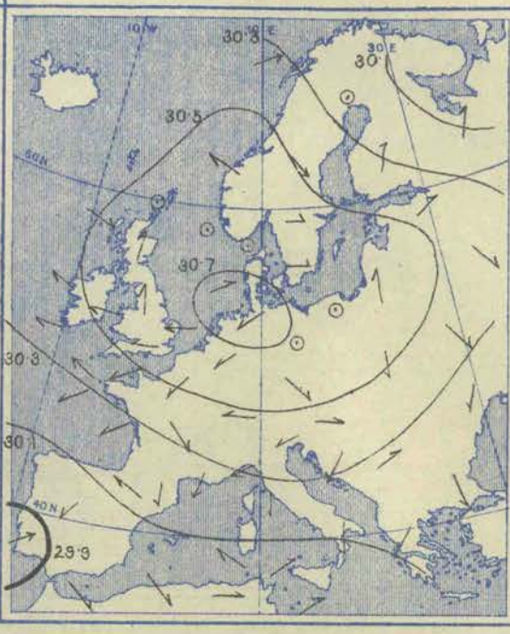
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and bright over the greater part of western Europe, but cloudy or hazy in a few places; very rainy at Perpignan and Barcelona. Snow falling in Hungary, and dull, unsettled weather over Lapland. Considerable rain at Bodö later, as well as in the extreme south of France—as much as 1·1 ins. at Perpignan. Snow falling at some of the Russian stations. Bright aurora seen over the northern parts of Great Britain.

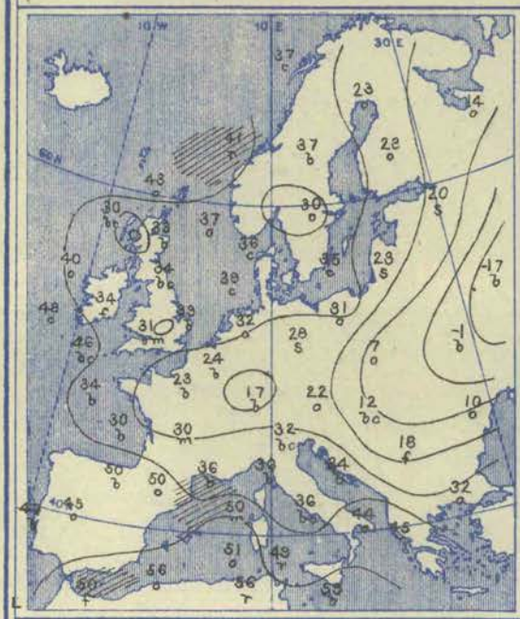
Temperature falling over our Islands and France, and falling very rapidly over Russia and Hungary. Morning readings highest, 60° at Oran, and exceeding 55° on the southern shores of the Mediterranean generally; 55° at Barcelona, 52° at Biarritz, 48° at Scilly, 47° at Valencia (Ireland). Lowest, (1) −20° Fahr. at Archangel, −4° at Moscow, +7° at Kiev, and below 20° over almost the whole of Russia, Poland, and Hungary; (2) 21° (local) at Nairn, 24° at Karlstad, 25° at Paris and Belfort, 29° at Brussels and Lyons. Continuing to fall somewhat over Great Britain and France towards night.

Wind anticyclonic over almost the whole of Europe and the British Islands, but fresh to strong in force from the Eastward or South-Eastward at many of the English and Irish stations South-Westerly in the south-west of Norway, and blowing strongly at Bodö. The Easterly wind decreasing slightly in force on our coasts later, and the Westerly wind becoming somewhat pronounced over Lapland.

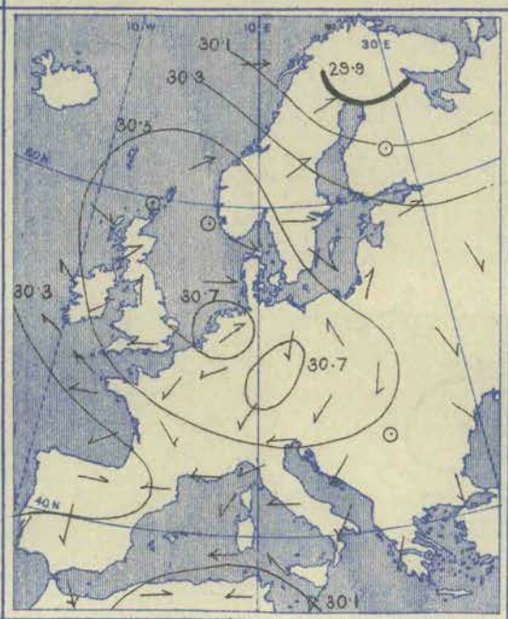
Barometer highest, 30·6 ins. and more to 30·4 ins. in a large anticyclone covering the whole of north-western Europe, and having its central area over the North Sea, Denmark, and the south of Scandinavia. Lowest, (1) below 30·0 ins. over the Black Sea; (2) below 30·1 ins. over the north of Spain; (3) below 30·2 ins. over the northern extremity of the Gulf of Bothnia. The anticyclone increasing in intensity later and spreading somewhat to the westward, but the barometer falling over Lapland and the north of Russia.

Wednesday, 22nd December.

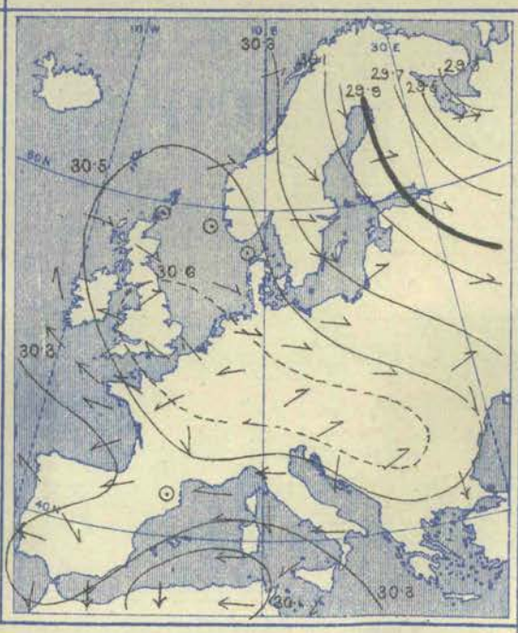
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and quiet over north-western, central, and southern Europe, but with some haze or fog in places; unsettled over northern Europe, with rain at Christiansund; snow at St. Petersburg, Riga, and Memel. Unsettled over the southern parts of the Mediterranean also, with rain in several places. Some rain later in the extreme north and the extreme south of Europe, and considerable falls in Algeria.

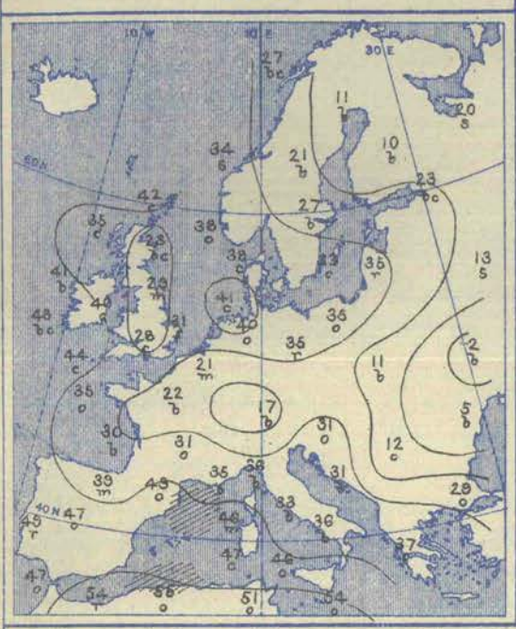
Temperature continuing to fall over the British Islands and the neighbourhood, as well as over south-eastern Europe; rising decidedly over the Finland and Baltic Provinces. Morning readings highest, 55° to 60° on the southern shores of the Mediterranean, 50° at Biarritz, 48° at Roches Point and Valencia, 43° at Donaghadee. Lowest, (1) −17° Fahr. at Moscow, −1 Fahr. at Kiev, and below +10° over the south of Russia generally; 14° at Archangel, 20° at St. Petersburg, 21° at Karlstad; (2) 17° at Munich, 28° at Paris, 27° at Leith, 28° at Cambridge. Still very low at Nairn (17°). Decreasing still further over Great Britain and France at night, and falling rapidly over Lapland and Finland.

Wind (1) strong to a gale from the Westward on the north-west coast of Norway, moderate from South-West over the Gulf of Bothnia; (2) light and anticyclonic over central Europe, the Netherlands, and all countries bordering on the North Sea; (3) fresh from South-East over Ireland, Wales, and the south-west of England, moderate from East over the Bay of Biscay; (4) Easterly and fresh over the Mediterranean; (5) North-Westerly strong in the south of Russia. Veering later to the Westward or North-Westward over Sweden and northern Russia.

Barometer highest, 30·7 ins. and more to 30·5 ins. in a complex anticyclone covering the whole of the central and north-western countries. Lowest, below 29·9 ins. in a depression over Lapland, and below 30·1 ins. at Malta and over the north-eastern parts of Africa. Falling slightly in our Islands later, but beginning to rise in the north of Scandinavia.

Thursday, 23rd December.

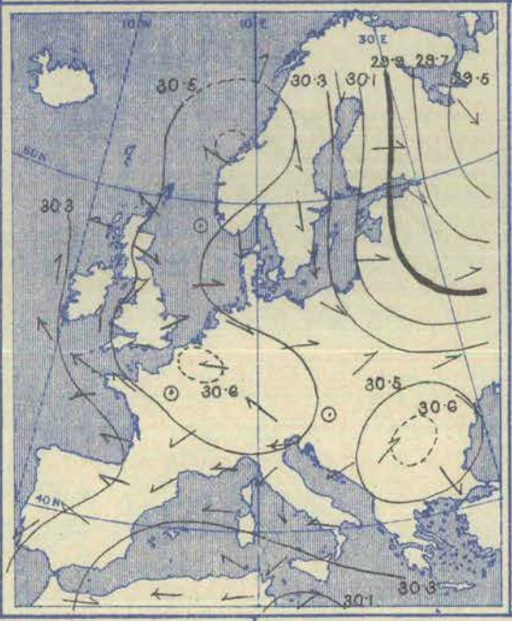
Temperature and Weather. 8 a.m.

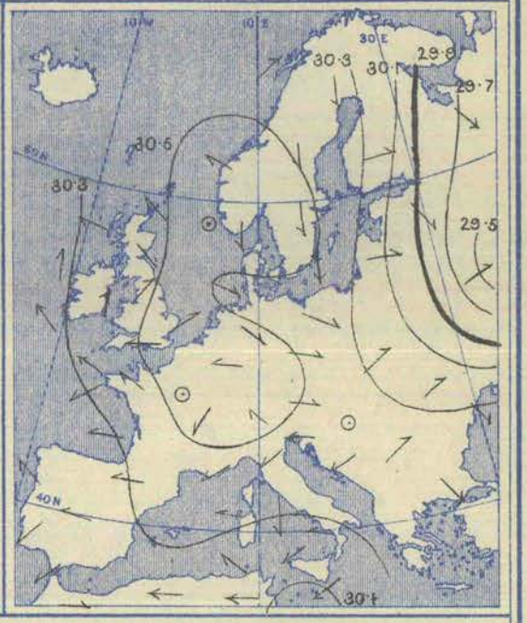


Weather in morning foggy or misty in many parts of Great Britain, but fine in the north of Scotland, and also in Ireland. Cloudy or dull over Norway, Denmark, the Baltic, north Germany, and the central parts of Russia, with rain or snow in many places. Fine in most other parts of the Continent, but dull over the central and southern parts of the Spanish Peninsula, with rain at Lisbon. No important change occurring later, but dull weather setting in over Ireland.

Temperature risen at many of our own western and northern stations, but fallen in most other places. Morning readings highest, 55° at Algiers, and 54° at Oran and Malta; above 45° at most of the Mediterranean and Spanish coast stations, as well as in the south of Ireland. Lowest, - 13° Fahr. at Kharkov, -2° at Kiev, and +3° at Nicolaieff; below 20° at many of the Russian stations, as well as in some parts of central France and south Germany, and very little above it over central England and the eastern and central parts of Scotland. Remaining below the freezing point all day at several of our own northern and central stations. Hard frost occurring in many parts of Great Britain at night.

Barometer and Wind. 8 a.m. and 6 p.m.



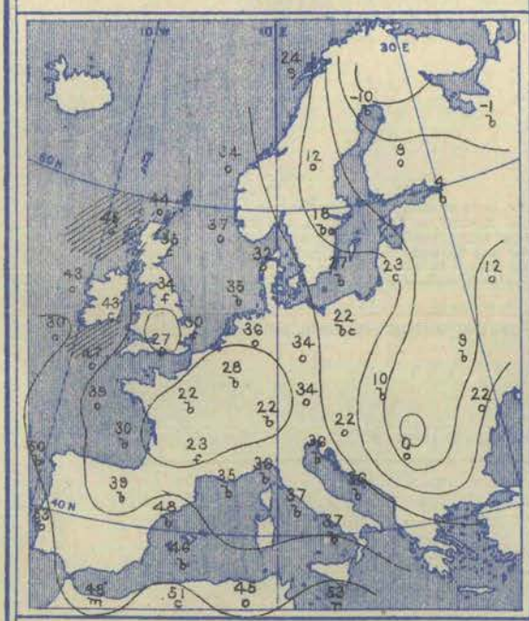


Wind light to moderate from the Eastward in France and Italy; moderate to fresh from the South-Eastward or Southward on our own south-west coasts; light from the South-Westward in the east of England, and from the Northward or North-Westward in the north-east of Scotland. Northerly in Sweden, with a gale at Wisby; North-Westerly or Westerly over Russia, Denmark, and Germany. Light Southerly or South-Easterly winds setting in later over the greater part of England; no decided change occurring elsewhere.

Barometer highest, 30·6 ins. and upwards in the Netherlands, and also in eastern Austria; 30·4 ins. and upwards in an anticyclone covering the greater part of western, central, and eastern Europe. Lowest, 29·5 ins. and less in a depression over northern Russia. Depression subsequently moving south-eastwards, but general distribution of pressure over Europe remaining very little changed.

Friday, 24th December.

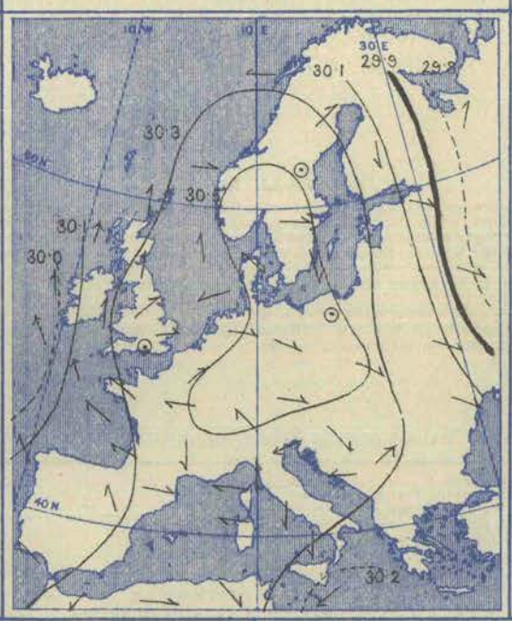
Temperature and Weather. 8 a.m.

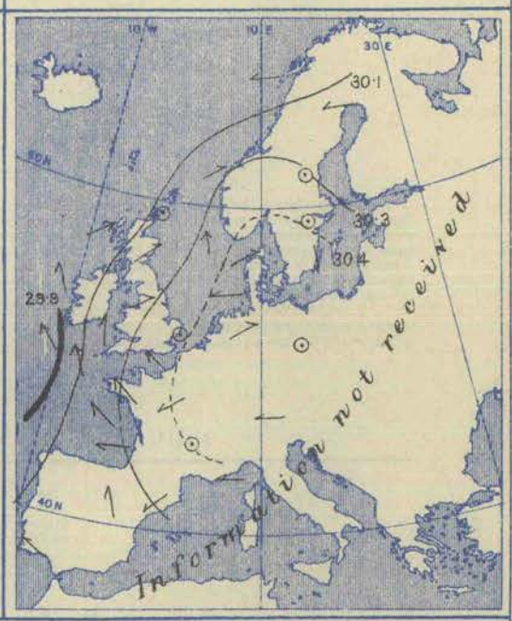


Weather in morning fine and quiet over France, Germany, and the Baltic, and in most places clear and bright; very foggy over England, fine in Wales, dull and unsettled over Ireland and the west of Scotland; snow at Bodö. Considerable snow and rain at Bodö later, some fall in Ireland (greatest 0·34 in. at Roche's Point); a heavy fall at Lisbon.

Temperature inclined to rise decidedly in the west and north of our Islands. Morning readings highest, 50° in the south of Ireland, 47° at Scilly, 45° at Stornoway, 44° at Sumburgh Head. Lowest, (1) - 10° Fahr. at Haparanda, +12° at Hernösand, 13° at Karlstad, 27° at Wisby; (2) 20° at Belfort, 22° at Munich and Paris, 28° at Brussels; (3) 23° to 27° over the inland parts of England. Rising later to much above the freezing point over England, and touching 52° to 54° in the west of Ireland, and 55° at Biarritz.

Barometer and Wind. 8 a.m. and 6 p.m.



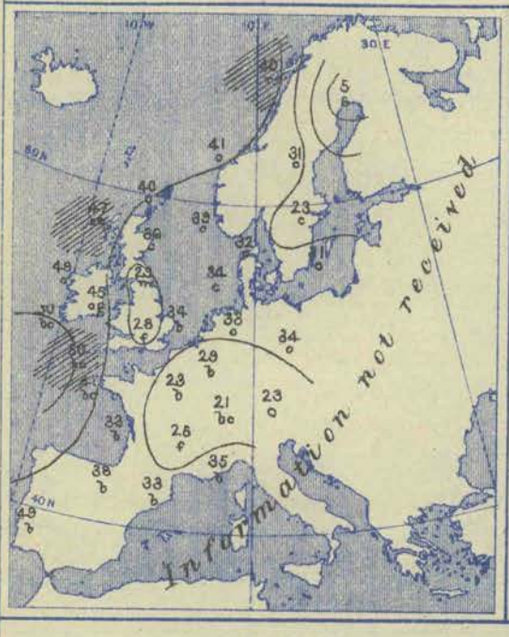


Wind very light and mainly anticyclonic over Continental Europe, as well as the eastern parts of England; fresh to very strong from South and South-East over the western parts of the British Islands; East-South-Easterly and moderate over the western parts of the English Channel. A gale from South-East felt over some of the western parts of our Islands later—no great change elsewhere.

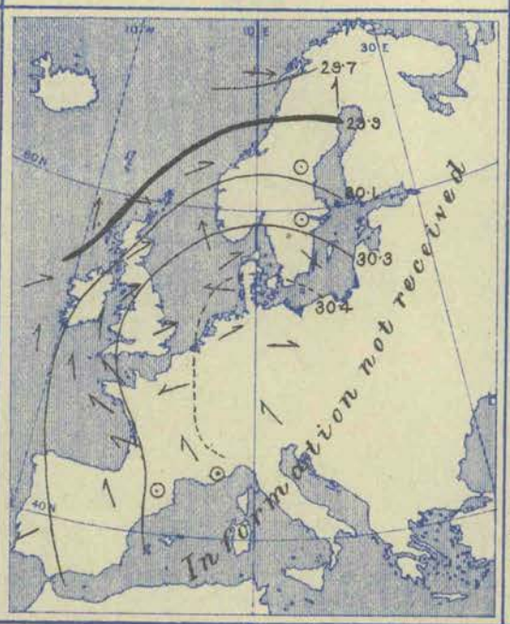
Barometer highest, 30·5 ins. and more over Germany and the east of France, and exceeding 30·2 ins. all over Great Britain, the North Sea, and Scandinavia. Lowest, below 30·0 ins. off the west of Ireland. Gradients rather steep over Ireland, very slight over the Continent Falling decidedly over Ireland later, and giving way somewhat over north-western Europe generally.

Saturday, 25th December.

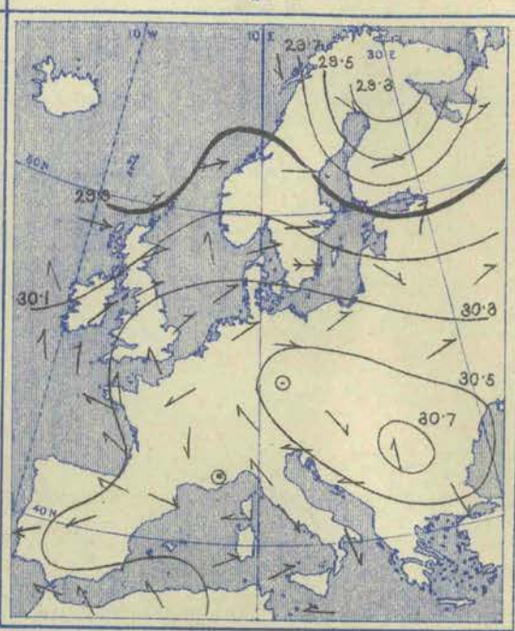
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine and quiet over Germany, Denmark, France, and the greater part of our Islands—clear in many places, dull or very foggy in others; dull and unsettled over the north-western and northern parts of our Islands and in Norway—squally at Stornoway, rainy at Bodö. A little rain later at several of our western and northern stations, in Norway, and in Lapland; fogs continuing locally in various parts of England and France.

Temperature risen rapidly over Lapland and the northern parts of Sweden and Norway. Morning readings highest, 50° in the south of Ireland and at Scilly, 49° at Lisbon, Belmullet, and Malin Head, 47° at Stornoway. Lowest, (1) 5° Fahr. at Haparanda, 18° at Karlstad, 23° at Stockholm; (2) 21° at Belfort, 23° at Munich and Paris, 25° at the Helder; (3) 28° to 29° over the central parts of England. Rising slightly during day, but falling fast over England at night.

Wind very light and anticyclonic over central Europe, France, the south-eastern half of England, the southern half of the North Sea, and Denmark; Southerly to South-Westerly, moderate to strong on our north-western coasts; West-South-Westerly, a gale, in the west of Lapland; North-Westerly over the Baltic. Wind becoming light at our north-western stations later; no decided change elsewhere.

Barometer highest, 30·4 ins. and more to 30·2 ins. in a large anticyclone covering central Europe, the Baltic, and the greater part of the North Sea, England, and France. Lowest, below 29·7 ins. over the north-west of Lapland; below 29·9 ins. over the Hebrides, and below 30·1 ins. over Portugal. Rising at our western stations later, falling over Norway.

Explanation of Charts.—In the two right-hand Charts the height of the barometer is expressed by isobars, the pressure corresponding to each line being given in inches and tenths. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force is indicated thus: ⇉ = a heavy gale ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the left-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by isotherms, and the readings at selected stations are given in degrees Fahrenheit. Diagonal lines = rough sea, the shading being proportional to the disturbance.

N.B.—The Charts for 8 a.m. are prepared from observations made at 8 a.m. in the British Islands, Germany, Sweden, and Norway, and 7 a.m. in France, Algeria, Italy, Austria and Russia; that for 6 p.m. is prepared from observations made at 6 p.m. in the British Islands and France, 7 p.m. in Algeria, 8 p.m. in Sweden and Norway, Germany, and Austria, and 9 p.m. in Russia, Belgium, and Italy. The time indicated in each case is the standard time for each country.

GENERAL NOTES.

During almost the whole of this week high-pressure areas have prevailed over the North Sea and the adjacent parts, both of the United Kingdom and Continental Europe, and have at times spread westwards to Ireland, while depressions have been shown over Russia and central Europe on the one hand, and were evidently prevalent over the Atlantic—far to the westward and north-westward of Ireland—on the other. Calms, variable airs, and foggy, cold weather have therefore been the most striking features experienced over north-western and western Europe as a whole, accompanied by South-Easterly and Easterly breezes over the British Islands, while North-Westerly and Northerly winds, of considerable force, have been felt over the more eastern countries, accompanied by very low temperatures, and snow at times. In addition to the above some smaller depressions have been observed over Spain and Portugal, causing heavy rains in those regions, and more or less complete cyclonic circulations of wind.

Towards the end of the week the anticyclone began to move eastwards and southwards, and with this change the Atlantic depressions began to advance over the north-western and northern parts of the Kingdom, bringing South-Westerly winds and increasing temperatures to Ireland and Scotland, some rain, and a tendency for all these conditions to spread south-eastwards over England and neighbouring regions.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 302.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	6·9	+ 1·4	15	+ 4	EASTBOURNE	26·9	+14·4	50	+27
OSWALDKIRK (Yorkshire)	5·4	- 2·6	11	- 5	VENTNOR HOSPITAL	21·7	?	40	?
WORKSOP	6·7	- 0·8	13	- 1	SOUTHPORT	7·5	?	15	?
THURCASTON (Leicestershire)	10·1	+ 3·3	20	+ 7	COLWYN BAY	26·9	?	53	?
MARGATE	22·0	+11·2	41	+21	TENBY	14·3*	+ 4·2	27*	+ 7
WESTBOURNE (Sussex)	32·7*	+21·5	61*	+40	NEWQUAY	21·1	+ 9·9	38	+17
BRIGHTON	26·8	+15·4	50	+29	TORQUAY	18·5*	+ 6·7	34*	+12
					GUERNSEY	23·9*	+13·6	43*	+25

* The values at Westbourne, Torquay, Tenby, and Guernsey are obtained by Jordan's Photographic Recorder.

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WEEKLY WEATHER REPORT.

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VOL. XIV No. 52.] *Third Series.*

WEEK ENDING SATURDAY, JANUARY 1ST, 1898.

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I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF BRIGHT SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Summary.—The distribution of the Districts, and the Stations from which reports are received, are shown on the second page of this number. TEMPERATURE.—The *Daily Mean* is obtained from the maxima and minima by applying a suitable correction determined for each month. The *Mean for the Week* is the mean daily temperature (obtained as above) in the corresponding week, derived from 25 years observations (1871-95). ACCUMULATED TEMPERATURE indicates the combined amount and duration of the excess or defect of temperature above or below 42° F. for the period named, and is expressed in Day-degrees—a "Day-degree" signifying 1° continued for 24 hours, or any other number of degrees, for an inversely proportional number of hours. The *Means* with which the current values are compared are those for the corresponding period in the fifteen years 1881-95. RAINFALL.—The *Mean Amounts* are those for the corresponding periods in the thirty years 1866-95, but the *Mean numbers of Rainy Days* are those for the fifteen years 1881-95 only. BRIGHT SUNSHINE.—The *Mean Values* employed are those for the corresponding periods in the fifteen years 1881-95.

A more detailed explanation of the meaning of "Accumulated Temperature" will be found in the Preface to Vol. I. Second Series.

Temperature of the Air.

	DISTRICTS. (See p. 308.)	Observed during the Week. Highest.	Lowest.	Averages of Daily Maxima.	Daily Minima.	Daily Mean.	Above or below the Mean for the Week.	Accumulated. For the Week. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.	From January 3rd, 1897. Above 42°	Difference from Mean.	Below 42°	Difference from Mean.
		°	°	°	°	°		Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.	Day-deg.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	54	32	46·6	37·9	42·4	4 above	20	+13	11	−22	2184	+208	832	− 8
	1. SCOTLAND, EAST	56	31	47·2	36·9	42·2	5 above	23	+17	14	−27	2414	+ 52	919	0
	2. ENGLAND, N.E.	55	24	49·1	37·1	43·3	6 above	30	+23	14	−22	2706	+129	620	−120
	3. ENGLAND, EAST	55	22	48·5	38·2	43·5	6 above	26	+18	11	−30	3129	+152	690	−149
	4. MIDLAND COUNTIES	54	23	49·0	36·6	43·1	6 above	30	+21	15	−26	3044	+ 93	708	−153
	5. ENGLAND, SOUTH	54	23	49·6	41·3	45·6	6 above	28	+15	2	−30	3554	+274	377	− 244
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	54	31	49·1	40·9	45·2	6 above	27	+16	3	−24	2674	+149	547	− 85
	7. ENGLAND, N.W.	60	27	50·7	40·0	45·6	6 above	35	+25	6	−22	2979	+213	450	−153
	8. ENGLAND, S.W.	54	24	50·6	41·8	46·4	5 above	32	+15	1	−20	3401*	+282	285*	−171
	9. IRELAND, NORTH	54	28	47·8	39·0	43·6	4 above	24	+12	8	−17	2755	+ 97	509	− 37
	10. IRELAND, SOUTH	58	30	51·0	41·6	46·5	5 above	33	+13	1	−19	3328	+262	282	−135
	—CHANNEL ISLANDS	55	36	51·8	45·4	48·7	4 above	47	+19	0	− 7	4087	+435	72	− 99

Rainfall.

	DISTRICTS. (See p. 308.)	For the Week. No. of Rainy Days.	Total Fall.	More or less than the Mean for the Week.	From January 3rd, 1897. No. of Rainy days.	Difference from Mean.	Total fall.	Difference from Mean.
			10ths of in.	10ths of in.			Ins.	Ins.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	6	24	11 more	230	−15	46·1	− 4·4
	1. SCOTLAND, EAST	6	14	7 more	204	+ 5	29·9	− 2·2
	2. ENGLAND, N.E.	4	3	3 less	183	− 5	24·2	− 2·4
	3. ENGLAND, EAST	6	5	0 (average)	174	−10	23·1	− 3·2
	4. MIDLAND COUNTIES	6	8	2 more	178	− 2	27·4	− 1·1
	5. ENGLAND, SOUTH	6	11	5 more	168	− 8	26·8	− 2·8
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	7	33	21 more	222	+13	47·4	− 2·5
	7. ENGLAND, N.W.	6	10	2 more	199	+ 3	37·0	+ 1·5
	8. ENGLAND, S.W.	7	20	11 more	206	+ 6	44·3	+ 4·3
	9. IRELAND, NORTH	7	20	12 more	234	+ 6	40·9	+ 2·9
	10. IRELAND, SOUTH	7	26	17 more	219	+13	47·8	+ 8·7
	— CHANNEL ISLANDS	7	16	7 more	218	+ 5	36·6	+ 2·4

Bright Sunshine.

	DISTRICTS. (See p. 308.)	For the Week. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.	From January 3rd, 1897. Hours recorded.	Difference from Mean.	Percentage of possible Duration.	Difference from Mean.
Principal Wheat-producing Districts.	0. SCOTLAND, NORTH	2	− 2	4	− 4	1239	+187	28	+ 4
	1. SCOTLAND, EAST	3	− 4	6	− 9	1353	+ 78	30	+ 1
	2. ENGLAND, N.E.	4	− 4	8	− 8	1432	+141	32	+ 3
	3. ENGLAND, EAST	6	− 4	12	− 7	1607	+ 78	36	+ 1
	4. MIDLAND COUNTIES	7	− 2	14	− 2	1515	+137	34	+ 3
	5. ENGLAND, SOUTH	4	− 7	7	−13	1696	+ 91	38	+ 2
Principal Grazing, &c., Districts.	6. SCOTLAND, WEST	4	− 3	8	− 5	1401	+ 21	31	+ 1
	7. ENGLAND, N.W.	7	0	13	0	1519	+140	34	+ 4
	8. ENGLAND, S.W.	11	0	19	0	1647	− 2	37	0
	9. IRELAND, NORTH	10	+ 2	19	+ 3	1297	+ 30	29	0
	10. IRELAND, SOUTH	11	0	22	0	1441	− 2	33	0
	— CHANNEL ISLANDS	12	− 1	22	− 1	1750	−101	41	− 2

Bright Sunshine.—Owing to the absence of mean values for Ventnor (England S.), Gilcrux (Scotland W.), Scilly (Channel Islands), and for three of the stations in England N.W., the "difference from the mean" in those districts is likely at times to appear somewhat defective.

General Remarks.

Weather was very unsettled, with frequent rain, in nearly all parts of the Kingdom. Over Scotland and in most of the western districts the rainfall was very heavy. Thunder and lightning were experienced at some of the western stations on Thursday.

Temperature was much above the mean, the excess ranging from 4° in Scotland N., Ireland N., and the Channel Islands, to 6° in Scotland W., and in almost all the English districts. The highest of the maxima were registered at the commencement of the week in the western and northern districts, and on December 29th at most of the English stations; they ranged from 60° in England N.W. (at Llandudno), and 58° in Ireland S., to 54° in Scotland N. and W., Ireland N., and several parts of England. The lowest of the minima were recorded on December 26th in England, but on rather irregular dates in Ireland and Scotland; they varied from 22° in England E., 23° in the Midland counties and England S., and 24° in England N.E. and S.W., to 32° in Scotland N., and to 36° in the Channel Islands.

Rainfall was less than the mean in England N.E., and only just equal to it in England E.; in all other districts, however, there was an excess, that in Scotland, Ireland, the south-west and south of England and the Channel Islands being very great. The largest amounts registered at any of the individual stations were 6·0 ins. at Killarney, 5·48 ins. at Glenlee, 5·18 ins. at Fort William, 4·36 ins. at Laudale, and 4·08 ins. at Valencia.

Bright Sunshine was less than the normal over the Kingdom as a whole, but slightly exceeded it in Ireland N. The percentage of the possible duration ranged from 22 in Ireland S. and the Channel Islands, to 7 in England S., 6 in Scotland E., and 4 in Scotland N.

Barometer and Wind.—During the greater part of this week a series of depressions travelled north-eastward over our western and north-western districts. Some of these systems were large and deep, and caused strong Southerly and South-Westerly winds and occasional gales in all parts of the Kingdom. In those which lay in the extreme north-west on December 30th the barometer fell as low as 28·1 ins. Towards the end of the week a decided change took place in the distribution. The depressions in the north-west and north were dispersing, while a new disturbance which had formed suddenly over the Bay of Biscay was moving slowly north-eastward to England. The wind consequently fell light generally, and shifted to the Eastward in nearly all parts of England and Ireland.

* This value has been altered somewhat owing to the receipt of further information for a preceding week.

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II.—DATA from which the SUMMARY on page 307 has been calculated.

Districts.	Names of Stations.	Temperature. In Degrees Fahrenheit.								Rainfall.			Bright Sunshine.			
		Highest observed.	Lowest observed.	Averages for the Week.			Difference of Daily Average from Mean for the Week.	Accumulated Heat for the Week (in Day-degrees).		Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible duration.	Difference from the Mean for the Week.
				Of Highest each day.	Of Lowest each day.	For whole of each day.		Above 42° F.	Below 42° F.							
		*	*	*	*	*	*	*	*		Inches.	Inches.				
0. SCOTLAND, N.	Sumburgh Head §	49	40	47·0	41·3	44·3	+ 4·2	19	2	7	1·06	+ 0·14	*	*	*	*
	Stornoway §	51	35	45·1	38·1	41·7	+ 2·8	9	17	7	2·74	+ 1·51	2·4	- 3·5	5	- 8
	Wick §	52	35	47·1	38·0	42·7	+ 5·2	22	11	4	0·31	- 0·31	*	*	*	*
	Lairg §	53	32	44·0	34·6	39·5	+ 3·1	6	29	5	0·50	- 0·38	*	*	*	*
	Glencarron §	54	34	46·0	37·5	41·9	+ 4·9	11	20	7	3·53	+ 1·28	*	*	*	*
	Fort Augustus §	53	32	48·3	36·8	42·8	+ 4·8	27	15	7	3·42	+ 2·32	2·4	+ 0·6	5	0
	Fort William §	54	33	48·9	39·1	44·2	+ 5·5	28	8	7	5·18	+ 3·05	1·5	- 1·8	3	- 4
1. SCOTLAND, E.	Nairn	54	32	47·7	34·4	41·3	+ 4·2	16	32	6	0·95	+ 0·52	*	*	*	*
	Aberdeen	52	34	46·4	38·4	42·6	+ 5.1	19	10	6	0·52	- 0·10	2·7	- 7·0	6	- 15
	Braemar §	50	32	44·6	35·3	40·1	+ 5·7	7	26	6	1·69	+ 1·00	0·0†	- 5·0†	0†	- 10†
	Ochtertyre §	51	33	46·7	36·7	41·9	+ 5·4	13	23	6	2·67	+ 1·65	*	*	*	*
	Leith §	56	34	49·9	38·3	44·3	+ 5·4	10	32	7	0·93	+ 0·53	*	*	*	*
	Marchmont §	53	31	47·6	37·9	42·9	+ 6·8	24	11	6	1·33	+ 0·69	3·8	- 4·0	8	- 8
2. ENGLAND, N.E.	Alnwick Castle	53	24	48·9	? 36·9	? 43·1	? + 5·4	? 29	? 14	5	0·52	- 0·08	*	*	*	*
	Durham	53	26	49·6	36·1	43·1	+ 6·4	32	17	5	0·28	- 0·27	5·9	- 4·2	12	- 8
	Shields	55	28	50·1	37·4	44·0	+ 5·7	33	13	4	0·21	- 0·27	*	*	*	*
	Scarborough M	53	26	48·4	37·2	43·0	+ 4·8	27	13	2	0·12	- 0·43	4·2	?	8	?
	York	53	25	49·4	36·1	43·0	+ 5·6	32	17	4	0·12	- 0·35	3·8	- 2·5	7	+ 5
	Spurn Head	51	31	48·0	39·1	43·7	+ 5·3	24	8	3	0·23	- 0·17	*	*	*	*
3. ENGLAND, E.	Hillington M	54	27	48·8	38·6	43·9	+ 7·2	28	10	5	0·43	- 0·07	8·1	- 1·7	16	- 2
	Yarmouth	51	30	47·3	39·1	43·4	+ 5·5	22	8	5	0·26	- 0·26	*	*	*	*
	Geldeston	52	27	47·9	39·4	43·8	+ 5·7	24	7	6	0·37	- 0·07	9·6	- 1·5	18	- 3
	Cambridge	55	25	49·9	37·0	43·7	+ 6·5	33	14	6	0·26	- 0·13	4·9	- 4·8	9	- 9
	Rothamsted	53	22	48·4	36·9	42·9	+ 5·5	28	14	7	1·11	+ 0·56	2·7	- 7·2	5	- 13
4. MIDLAND COUNTIES	Harrogate M															
	Bawtry (Hesley Hall)	54	29	49.7	35·7	43·0	+ 5·9	33	18	5	0·16	- 0·31	*	*	*	*
	Loughborough	54	29	49·6	38·1	44·1	+ 6·7	31	11	4	0·47	- 0·02	*	*	*	*
	Stamford (Duddington)	53	25	49·0	37·3	43·4	+ 6·7	30	13	6	0·45	- 0·03	*	*	*	*
	Cheadle M	51	29	46·8	36·7	42·0	+ 5·3	19	15	4	0·37	- 0·32	*	*	*	*
	Shirley (near Solihull)	52	29	48.3	37·0	42.9	+ 5·9	27	14	6	0·61	?	*	*	*	*
	Churchstoke M	53	27	49·7	37·7	43·9	+ 6·0	31	12	7	1·47	+ 0·77	9·5	+ 0·6	18	+ 1
	Hereford M	52	27	?49·1	? 35·5	? 42·6	? + 4·4	? 32	? 18	6	1·06	+ 0·51	*	*	*	*
	Cirencester	53	23	49·6	33·6	41·9	+ 4·7	21	37	7	1·62	+ 0·97	6·3	- 3·7	12	- 6
	Oxford	53	24	49·4	38·0	43·9	+ 5·7	30	11	6	0·77	+ 0·30	8·3	- 1·6	16	- 2
5. ENGLAND, S.	London	54	23	49·4	39·0	44·4	+ 5·4	29	8	7	0·74	+ 0·25	1·5†	- 3·4†	3†	- 6†
	North Foreland	52	33	48·6	41·0	45·0	+ 5·8	25	3	6	0·60	?	*	*	*	*
	Dungeness	53	24	49·3	40·1	44·9	+ 5·1	28	5	5	0·30	- 0·30	*	*	*	*
	Hastings (St. Leonards)	53	35	49·6	44·1	47·0	+ 7·0	35	0	5	0·69	+ 0·06	3·5	- 9·7	6	- 18
	Southampton	53	27	50·8	42·0	46·6	+ 6·7	32	0	6	2·09	+ 1·38	4·5	- 6·8	8	- 13
	Hurst Castle	53	33	50.9	42·3	46.8	+ 5·9	34	0	6	1·57	+ 0·92	*	*	*	*
	Shaftesbury M	51	35	48.4	40·7	44.7	+ 8·0	24	4	6	1·85	+ 1·15	*	*	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	54	31	50·0	39·3	44·9	+ 4·8	32	8	7	4·36	+ 2.34	*	*	*	*
	Glasgow	52	38	48·2	40·5	44·5	+ 6·2	24	4	7	2·81	+ 1·91	2·0	- 2·2	4	- 5
	Ardrossan	53	41	48·4	43·4	46·0	+ 5·8	28	0	7	1·99	+ 1·12	*	*	*	*
	Glenlee §	54	34	49·0	39·6	44·5	+ 7·1	28	7	7	5·48	+ 3·96	*	*	*	*
	Gilcrux (Cumberland)	51	36	48·4	40 0	44·4	+ 6·7	25	6	7	3·16	?	3·9	?	8	?
	Douglas (Isle of Man)	53	32	50·3	42·6	46·6	+ 5·7	32	0	7	2·09	+ 1·07	6·4	- 3·4	13	- 5
7. ENGLAND, N.W.	Stonyhurst	52	31	48·6	38·7	43·9	+ 7·3	27	9	6	0·86	- 0·14	3·7	- 2·6	7	- 5
	Blackpool M	55	30	50·6	? 38·7	? 44·9	? + 6·3	? 35	? 9	5	0·89	+ 0·19	4·4	- 1·6	9	- 3
	Manchester (Prestwich)	57	27	49·6	38·3	44·2	+ 6·8	31	10	5	0.45	- 0·34	7·4	?	15	?
	Liverpool Obsy. (Bidston)	56	30	51·7	38·9	45·6	+ 6·0	38	9	4	0·39	- 0·15	*	*	*	*
	Llandudno M	60	39	53·0	42·6	48·0	+ 6·4	42	0	6	1·17	+ 0·48	10·0	+ 2·7	19	+ 6
	Holyhead	53	40	50·6	42·7	46·8	+ 4·5	34	0	7	1·97	+ 1·15	*	*	*	*
8. ENGLAND, S.W.	Llandovery	53	24	50·1	36·4	43·5	+ 5·3	34	16	7	3·33	+ 2·13	*	*	*	*
	Pembroke	53	42	50·6	44·9	47·9	+ 4·9	41	0	7	1·76	+ 0·88	4·1	- 6·8	8	- 12
	Clifton	52	32	50·2	41·0	45·8	+ 6·5	31	3	6	1·47	+ 0·73	*	*	*	*
	Arlington (N. Devon)	53	32	50·0	38·3	44·4	+ 4·4	32	10	6	1·53	+ 0·35	*	*	*	*
	Cullompton M	53	28	50·5	39·1	45·0	+ 5·8	33	8	6	1·46	+ 0·68	8·6	- 0·4	16	0
	Falmouth	54	43	51·3	45·4	48·5	+ 4·6	46	0	7	2·20	+ 1·02	12·4	- 0·6	22	- 1
	Plymouth	53	42	51·3	44·0	47·8	+ 5·7	41	0	7	2·50	+ 1·64	12·0	+ 0·1	21	0
	Prawle Point	53	42	51·1	45·1	48·2	+ 6·0	43	0	6	1·86	+ 1·09	*	*	*	*
9. IRELAND, N.	Malin Head	52	39	46·9	40·6	43·9	+ 2·3	19	4	7	1·28	?	*	*	*	*
	Londonderry	53	36	48·2	38·6	43·6	+ 3·7	25	10	7	1·96	+ 1·05	*	*	*	*
	Edenfel (Omagh)	52	31	46·3	38·1	42·4	+ 6·0	19	11	6	2·14	+ 1·33	*	*	*	*
	Belmullet	53	35	47·9	40·6	44·4	+ 1·4	23	4	7	2·19	+ 0·98	*	*	*	*
	Markree Castle	54	28	47·0	36·4	41·9	+ 2·7	14	25	7	2·19	+ 1·28	6·8	- 1·2	13	- 2
	Armagh	54	31	49·0	37·6	43·5	+ 5·0	29	12	7	2·37	+ 1·72	12·4	+ 3·9	24	+ 8
	Donaghadee	54	33	49·4	41·1	45·4	+ 4·8	28	3	6	0·94	+ 0·29	*	*	*	*
	Edgeworthstown									6	3.00	+ 2·30	*	*	*	*
10. IRELAND, S.	Dublin	58	32	52·6	41·6	47·3	+ 6·1	39	1	7	0·75	+ 0·23	17·0	+ 5·0	33	+10
	Parsonstown	56	30	50·1	39·9	45·2	+ 5·7	31	6	5	1·86	+ 1·18	9·8	- 0·4	19	- 1
	Kilkenny	55	32	50.3	40·7	45·7	+ 5·1	31	4	7	0·77	+ 0·02	*	*	*	*
	Roche's Point	55	42	51·3	45·4	48·5	+ 4·9	46	0	7	2·51	+ 1·32	*	*	*	*
	Valencia	56	35	51·4	42·9	47·3	+ 2·3	37	0	7	4·08	+ 2·68	7·4	- 2·8	14	- 5
	Killarney	56	32	51·7	40·3	46·2	+ 3·0	37	5	7	6·00	?	*	*	*	*
	Foynes	56	33	49·7	40·6	45·3	+ 4·1	29	4	7	2·46	?	*	*	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	45	52·7	46·7	49·8	+ 3·5	55	0	7	1·81	+ 0·95	12·7	?	23	?
	Jersey	54	36	50·9	44·1	47·6	+ 4·6	39	0	6	1·33	+ 0·53	13·0	- 1·8	23	- 3

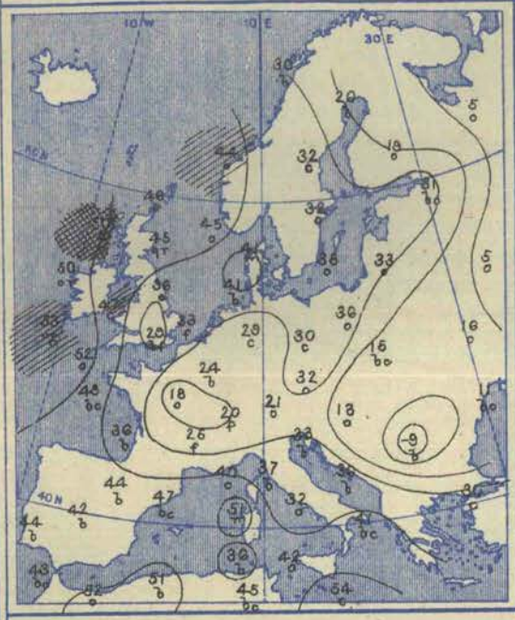
Stations marked M are in connection with the Royal Meteorological Society, and those marked § with the Scottish Meteorological Society.

* An Asterisk is inserted in all places for which the information is not usually received.

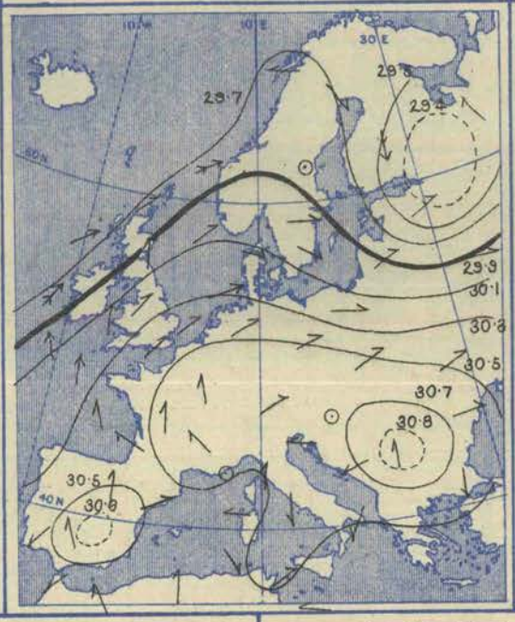
† The Sunshine values at Braemar are obtained by Jordan's Photographic Recorder. At all other stations named in this Table Stokes' or somewhat similar Bright Sunshine Recorders are in use. For London the Sunshine values are the means of observations made in the City (Bunhill Row), at the Kew Observatory, and the Wesleyan Training College, Westminster. For additional Reports of Sunshine, see last page.

Sunday, 26th December.

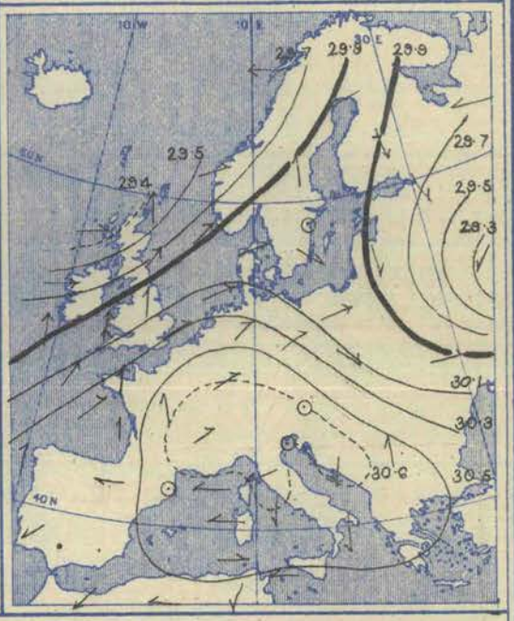
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in many parts of England and France but foggy at the eastern and central stations; cloudy in Ireland and the west of Scotland; rainy in the east of Scotland. Fine over Spain, Italy, and Austria as well as in Finland, but cloudy over the northern, eastern, and central parts of the Continent generally, with rain at Christiansund. Rain falling later in the west and north of our Islands generally—heavily in places. Rain occurring also in Norway and snow at Moscow.

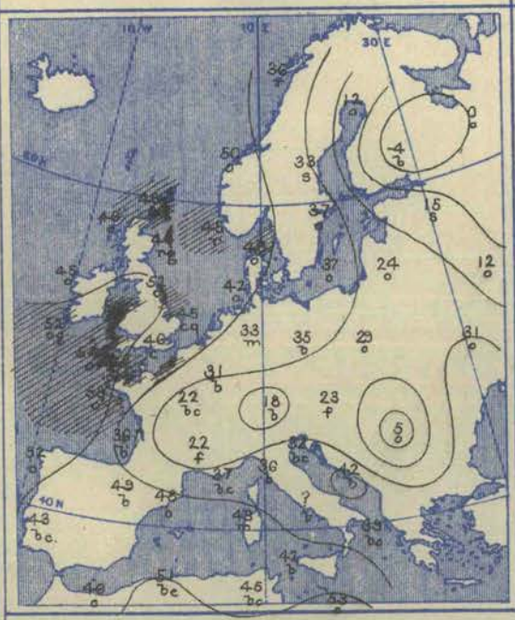
Temperature risen over north-western Europe, but fallen in many of the eastern and central countries. Morning readings highest, (1) 54° at Malta and 51° at Algiers; (2) 53° at Valencia (Ireland) and 52° at Scilly; above 45° over the western and northern parts of our Islands generally. Lowest, −9° Fahr. at Hermanstadt, +5° at Archangel and Moscow and 6° at Kharkov; considerably below the freezing point over south Germany and central France and slightly below it in the central parts of England. Rising later to between 50° and 55° at many of our own western and northern stations and to 56° at Parsonstown and Valencia; exceeding 55° also over Scilly and the southern parts of France and Italy.

Wind Southerly in our Islands, and strong in force in the west, with a gale at Belmullet. Westerly in Scandinavia and Denmark; South-Westerly in Germany; Northerly or North-Westerly in Finland, with a gale at Kuopio. Light and variable over Austria, Italy, and the south of France; South-Easterly in the west of France; Easterly or North-Easterly over the Spanish Peninsula. Subsequently increasing to a gale from the Southward or South-Westward on all our more western and northern coasts and also in the south of Norway.

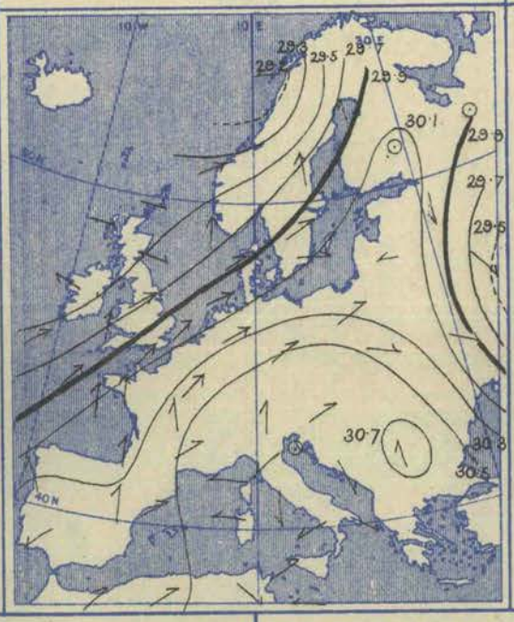
Barometer highest, 30·8 ins. and upwards over eastern Austria; 30·3 ins. and upwards in an anticyclone covering the whole of central and southern Europe and extending over the south-eastern parts of England. Lowest, 29·4 ins. and less in a well marked depression over the north of Russia; 29·7 ins. and less in another system lying to the westward of our Islands. Russian depression subsequently moving south-eastwards; disturbance in west advancing in a north-easterly direction, and occasioning general fall of barometer in our Islands.

Monday, 27th December.

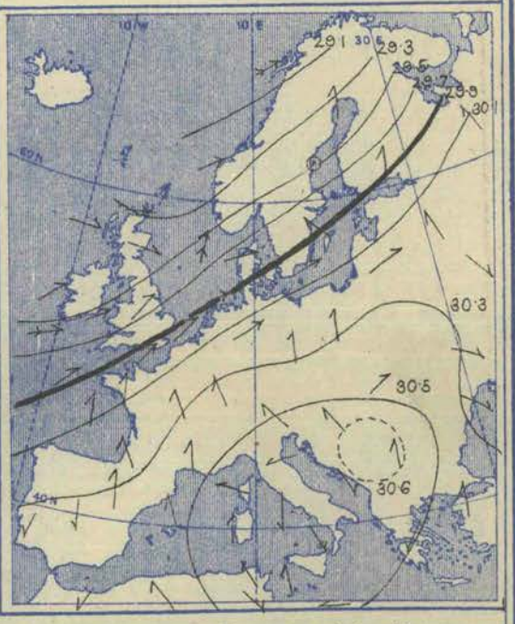
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of north-western, northern, and eastern Europe, with rain at several of our own western and northern stations, as well as in the west of Norway, and snow at Hernösand and St. Petersburg. Fine over France and southern Europe generally as well as in some parts of Finland. Rain falling later in most of the north-western and northern countries—heavily in the north of France. Snow continuing at several of the Russian stations.

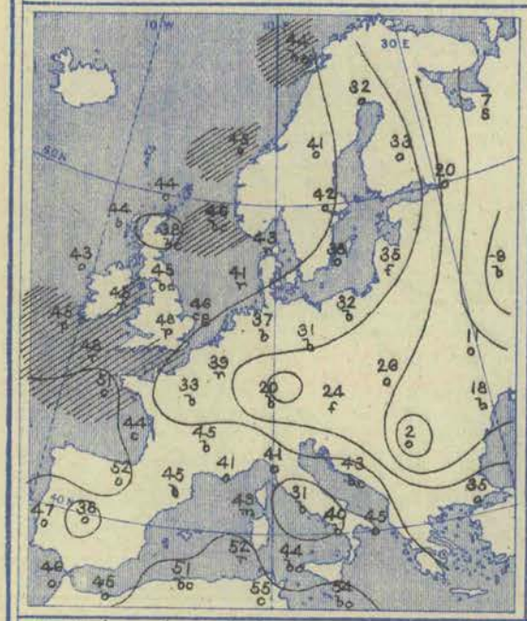
Temperature fallen over central and southern Europe, but risen elsewhere—rapidly over England. Morning readings highest, (1) 55° at Parsonstown, 54° at Scilly, and 53° at Liverpool and Roches Point (above 50° in many parts of England and Ireland); (2) 53° at Malta and 51° at Algiers, but below 50° at the Mediterranean stations generally. Lowest, (1) −4° Fahr. at Kuopio, 0° zero at Archangel, and +5° at Uleaborg; (2) 5° at Hermanstadt; considerably below the freezing point over south Germany and central France. Rising during day to 50° and upwards in many parts of the United Kingdom, and reaching 56° at Leith, Liverpool, and Parsonstown. Reaching 60° at Scilly, Jersey, Guernsey, and Falmouth.

Wind strong from South or South-West over north-western Europe as a whole, with gales on our own western coasts, but light from the Eastward in the north-west of Ireland, and from the Westward in the north and east of Scotland. Light from the Northward or North-Westward in Russia; variable in Italy, Easterly in the extreme south of France and North-Easterly at Lisbon. Subsequently moderating in force on our western coasts, but increasing to a gale from the Southward or South-Westward at some of the English Channel stations, as well as in the south of Norway.

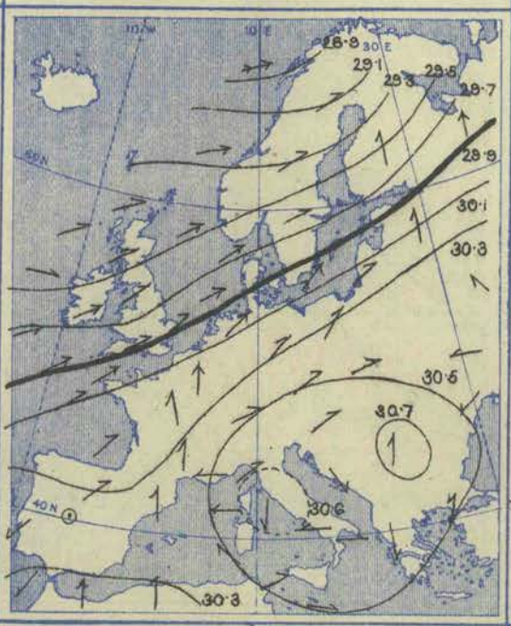
Barometer highest, 30·6 ins. and upwards in an anticyclone lying over Italy, Switzerland, and the neighbouring parts of France and Austria. Lowest, 29·2 ins. and less in a depression off the north-west of Norway; 29·4 ins. and less in a secondary system off the west of Ireland; 29·6 ins. and less in a well marked disturbance over central Russia. Depression off west of Ireland subsequently moving north-eastwards and barometer rising on several parts of our western coasts.

Tuesday, 28th December.

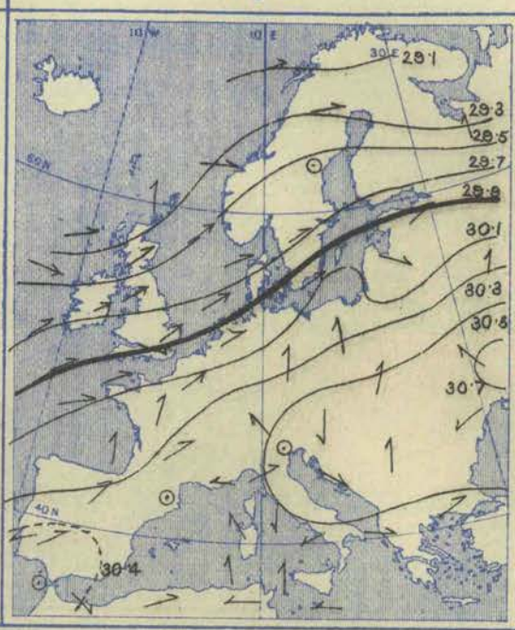
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning fine in the eastern parts of Great Britain as well as over the west of Norway, the south of Russia, and the greater part of Germany, Italy, central France, and Greece. Cloudy or dull elsewhere, with rain at many of our own western and southern stations as well as in the Netherlands, Denmark, and the Gulf of Finland; snow reported at Archangel. Rain falling later over north-western Europe generally—heavily in the south-west of our Islands. Thunder and lightning occurring at Skudesnaes at night.

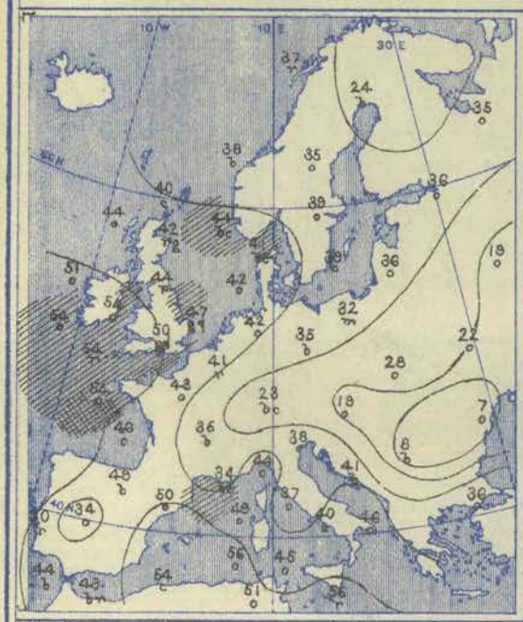
Temperature fallen quickly over the central and southern parts of Russia and to a less extent in our Islands and Germany; risen elsewhere. Morning readings highest, 55° at Sfax, 54° at Malta, and 52° at Cagliari and Biarritz; touching 50° at Prawle Point and very little below it at the English Channel stations generally. Lowest, −9° Fahr. at Moscow, 0° zero at Kharkov and Nicolaieff, and 2° at Hermanstadt; below the freezing point over eastern and central Europe generally. Rising during day to between 50° and 54° in many parts of England and Ireland; exceeding 55° over Spain and the southern parts of France and Italy and reaching 63° at Lisbon.

Wind Southerly or South-Westerly over western and northern Europe generally, and strong in force in many places, with a gale at Bodö and Wisby. Variable over Austria, Italy, and the south of Russia; Easterly or North-Easterly over the Spanish Peninsula and the extreme south of France. Moderating a little in force later in many of the north-western and northern countries, but backing to the Southward on our own extreme south-west coasts.

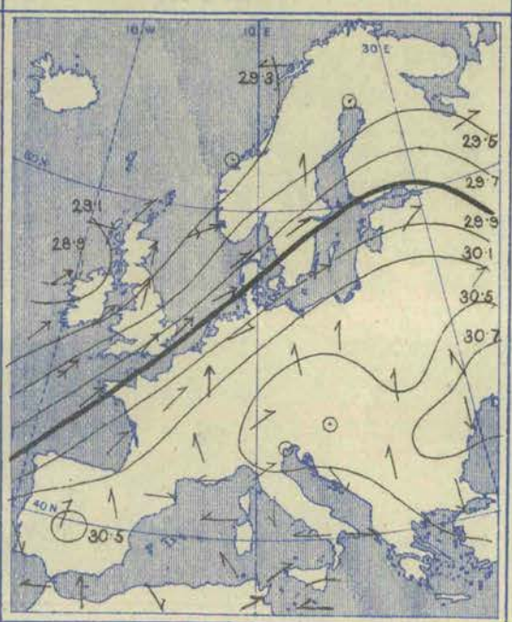
Barometer highest, 30·7 ins. and upwards over eastern Austria, 30·3 ins. and upwards in an anticyclone covering the greater part of eastern, central, and southern Europe. Lowest, 28·9 ins. and less in a depression off the north-west of Norway; 29·3 ins. and less in a secondary system lying to the westward of Scotland. Both depressions moving away later to the northward, but new disturbance beginning to approach the Irish coast.

Wednesday, 29th December.

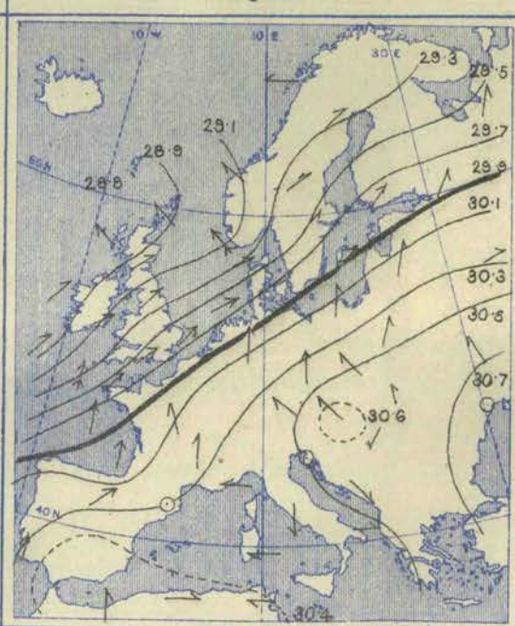
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning dull, squally, and rainy over the greater part of our Islands and the neighbouring portions of the Continent. Fine in the west of Norway and also in many parts of Germany and central France; cloudy or dull over the Continent as a whole, with rain at Bodö and also at Lisbon. Rain falling later over north-western Europe generally—heavily at many of our own western and south-western stations and also in the north-west of France. Lunar halo seen at Malin Head in evening.

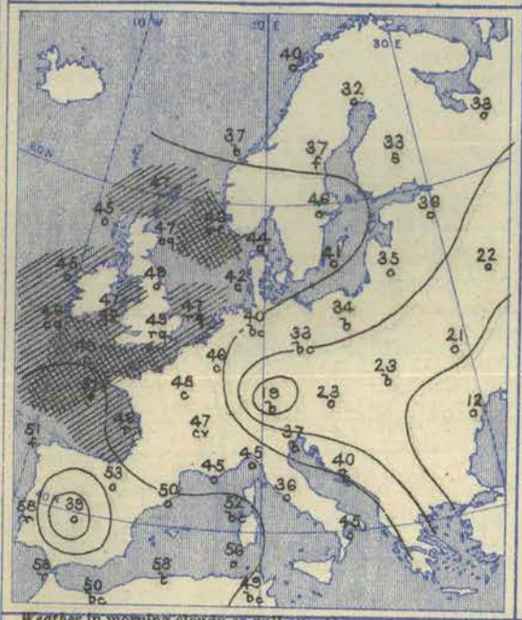
Temperature risen generally but fallen in Scandinavia and also over Austria, northern Italy, and the south of France. Morning readings highest, (1) 56° at Cagliari and Malta, and 55° at Sfax; (2) 54° at Valencia (Ireland) and Brest, and 53° at Liverpool and Roches Point; above 50° in the west and south of our Islands generally. Lowest, 0° zero at Nicolaieff, +8° at Kharkov and Hermanstadt, and 11° at Odessa; below the freezing point over eastern and central Europe generally. Rising during day to between 50° and 55° in nearly all parts of our Islands and France, and touching 59° at Biarritz; exceeding 60° at some of the Spanish stations.

Wind Southerly or South-Westerly over western and northern Europe generally; strong to a gale in force on our own western and southern coasts as well as in the south of Scandinavia. Light from the Southward or South-Eastward in Germany, calm in Austria; variable in most of the southern and south-eastern countries. Gale on our western and southern coasts increasing in evening or night, and spreading to the neighbouring parts of the Continent.

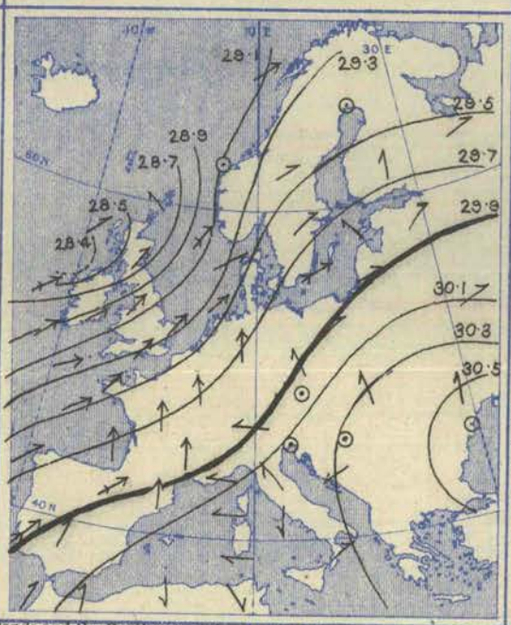
Barometer highest, 30·7 ins. and upwards in the south of Russia; 30·3 ins. and upwards in an anticyclone extending thence over central and southern Europe generally. Lowest, 28·9 ins. and less in a deep depression with its centre off the north-west of Ireland, 29·3 ins. and less in another disturbance over the White Sea. Depression in west subsequently moving northward but new and still deeper disturbance appearing off the west of Ireland in evening.

Thursday, 30th December.

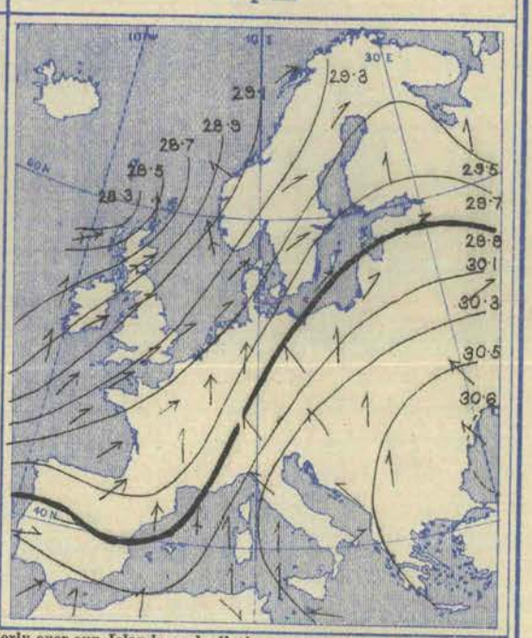
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over the greater part of our Islands and the Continent, with rain or passing showers in many parts of the north-western and northern countries and with snow at Kuopio. Fine on our extreme south-west coasts and also in Germany and central France. Some improvement taking place later over the eastern parts of our Islands, but showers falling in the west and north, and heavy rain in the Shetlands. Large quantities of rain falling also in many parts of Spain, France, and northern Italy—as much as 2·4 ins. at Marseilles and 2·3 ins. at Nice. Thunder and lightning occurring at Roches Point and lightning at Pembroke.

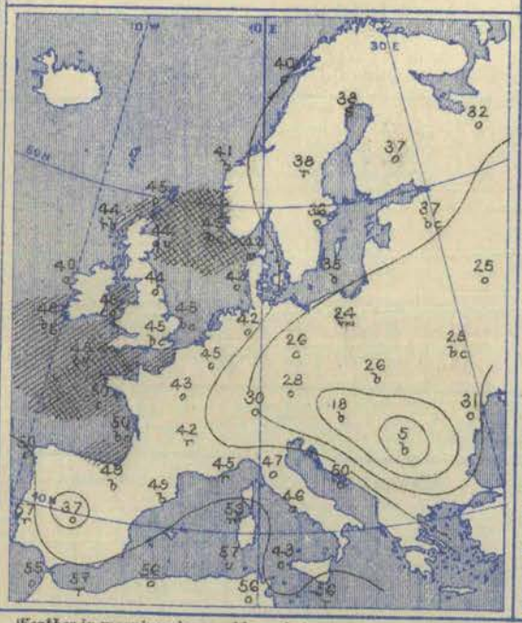
Temperature fallen in all the more western and southern parts of our Islands, changed rather irregularly elsewhere. Morning readings highest, 58° at Lisbon and San Fernando, 56° at Cagliari, and 53° at Biarritz and Algiers. Lowest, 8° at Nicolaieff, 10° at Kharkov, and 12° at Odessa; considerably below the freezing point over Austria and south Germany. Rising during day to 50° or slightly above it at most of our own southern stations and also at Wick; reaching 55° or more in the extreme south of France, and exceeding 60° over the central and southern parts of the Mediterranean.

Wind Southerly or South-Westerly over our Islands and all the more western and northern parts of the Continent; strong to a gale in force in many places, but light or moderate in the Shetlands and Hebrides, and also in the northern parts of Scandinavia and Russia. Calm in the extreme south of Russia, light and variable in Austria and Italy. Wind subsiding later in the south and east of England, but strong gale springing up in the north of Scotland. Another gale experienced on some parts of our western and southern coasts at night.

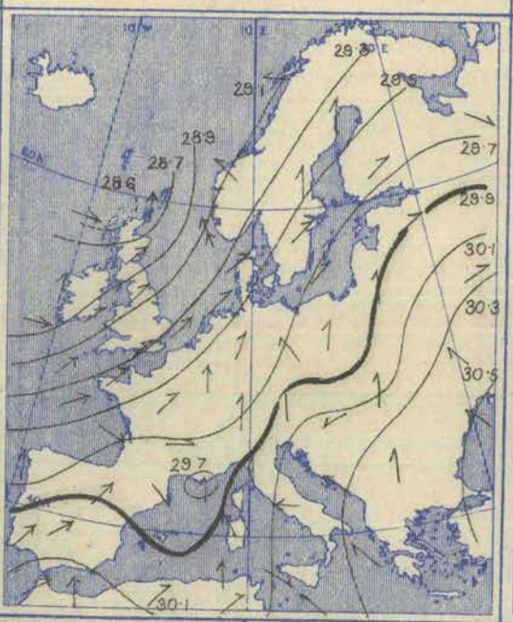
Barometer 30·7 ins. and upwards in the south of Russia, 30·3 ins. and upwards in an anticyclone extending thence over Austria, Italy, and the Mediterranean. Lowest, 28·4 ins. and less in a deep depression, with its centre off the west of Scotland. Depression subsequently moving northwards, and barometer at Stornoway falling below 28·2 ins. New disturbance approaching the Irish coasts in evening.

Friday, 31st December.

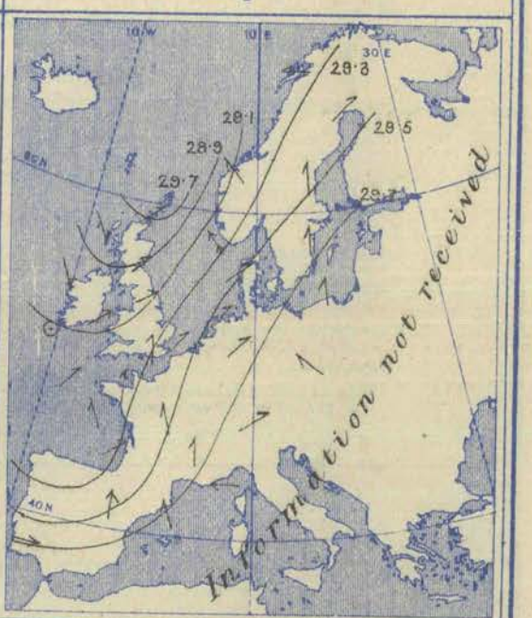
Temperature and Weather. 8 a.m.



Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning changeable and showery over our Islands generally, but fine (temporarily) in the eastern and central parts of England. Fine also in the western parts of France and Norway, as well as over the Baltic provinces, Poland, and eastern Austria; dull in most other parts of the Continent, with rain or snow in Sweden, the south of France, and the extreme north of Italy. Weather improving later in the west of our Islands, but showers falling in the east.

Temperature fallen in most parts of western and northern Europe, but risen elsewhere. Morning readings highest, 57° at Lisbon, Cagliari, and Nemours, and 56° at Malta, Algiers, and La Calle; above 50° at several of the Mediterranean and Spanish coast stations and very little below it on our own southern coasts. Lowest, 4° at Nicolaieff, 5° at Hermanstadt, 6° at Kharkov, and 18° at Buda-Pesth; below the freezing point over eastern and central Europe generally. Rising during day to 50° or slightly above it at several of our own western and southern stations, exceeding 55° in the south of France and exceeding 60° over the Spanish Peninsula.

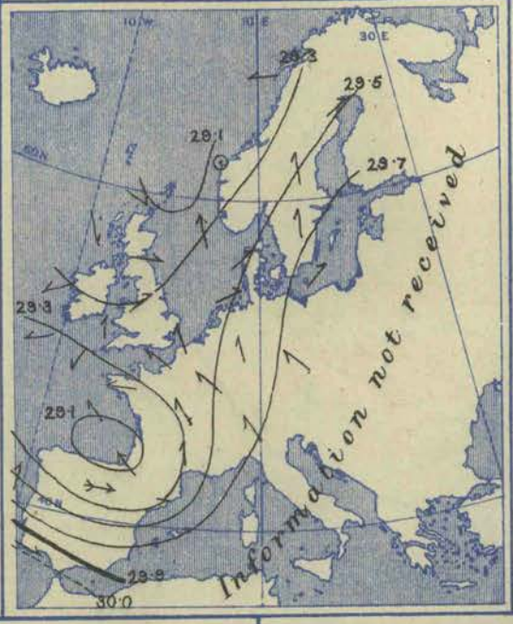
Wind fresh to strong from the Southward or South-Westward over western and northern Europe generally, with a gale at Skudesnaes, but light or moderate from the Eastward in the west of Norway. Light from the South-Eastward over the central parts of Germany, and moderate to strong from the same quarter in Italy, but variable over Austria and the south of France. Subsequently veering to the Westward or North-Westward in Ireland and the west of Scotland, and falling light; no important change occurring elsewhere.

Barometer highest, 30·6 ins. and upwards in the south of Russia, 30·2 ins. and upwards in an anticyclone covering the south-eastern parts of Europe generally. Lowest, 28·6 ins. and less in a depression lying to the northward of Scotland; 28·8 ins. and less in a small secondary system off the west of Ireland. Both depressions moving eastwards later and partially filling up, but new disturbance forming suddenly over the Bay of Biscay.

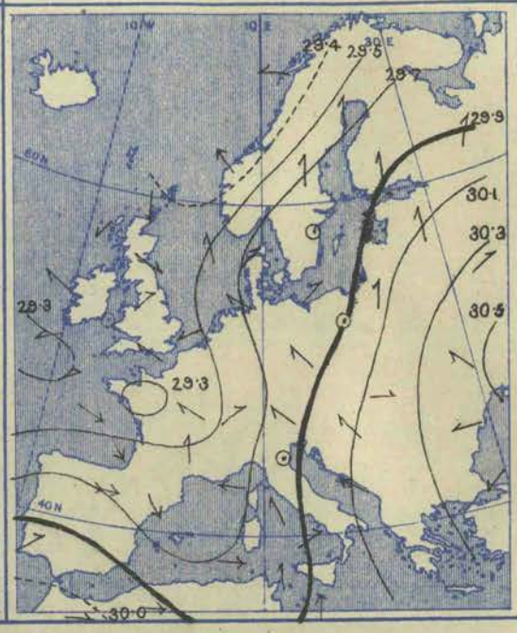
Saturday, 1st January.

Temperature and Weather. 8 a.m.

Barometer and Wind. 8 a.m.



Barometer and Wind. 6 p.m.



Weather in morning cloudy or dull over western Europe as a whole, with fog over eastern and central England, and rain over the western parts of the Channel and France. Fine at several of the Irish stations, as well as in the Netherlands, Germany, and the west of Norway. (Reports from the eastern, central, and southern parts of the Continent nearly all wanting). Rain falling later over nearly the whole of our Islands, France, and Spain—heavily at Valencia (Ireland) and also at Corunna.

Temperature fallen generally. Morning readings highest, 52° at Biarritz, 51° at Lisbon, 50° at Corunna, and 48° at Lyons; above 45° at some of the English Channel stations. Lowest, (1) 29° at Berlin and 32° at Belfort; (2) 30° at Parsonstown, 35° at Donaghadee, and 36° at York and Loughborough. Daily maxima below 45° at most of our own northern, eastern, and central stations, and below 50° excepting at Scilly. Thermometer exceeding 55° over the Spanish Peninsula and the extreme south of France, and reaching 61° at Corunna.

Wind light from the South-Eastward over Germany, the Netherlands, and the eastern and central parts of England and the northern and central parts of France, and from the Eastward or North-Eastward on our western coasts; Westerly or South-Westerly over the Spanish Peninsula and the extreme south of France, with a gale at Biarritz. Light from the Westward or North-Westward in Scotland; Southerly over Denmark and the greater part of Scandinavia. Subsequently shifting to the North-Westward in the west of France; no important change occurring elsewhere.

Barometer highest, 30·0 ins. and upwards in the south of Portugal; 29·7 ins. and upwards over the Baltic and eastern Germany. Lowest, 29·1 ins. and less in a depression lying off the west of Norway, and also in another system over the Bay of Biscay. Norwegian disturbance subsequently dispersing; depression over Bay of Biscay advancing north-eastwards over France but partially filling up. New but very shallow disturbance appearing off the south of Ireland in evening.

GENERAL NOTES.

At the commencement of this week pressure was highest (30·8 ins. to 30·3 ins.) over the southern and south-eastern countries; a depression lay over the north of Russia and was moving south-eastwards, while a series of new depressions, advancing from the south-westward, were spreading over our Islands from the north-westward. The Russian disturbance soon passed away, but day by day those arriving from the Atlantic increased both in size and intensity until at 2 p.m. on December 30th the barometric readings were as low as 28·2 ins. over the Hebrides and apparently still lower a little further to the north-westward. The anticyclone had in the meantime moved slowly to south-eastern Europe. Strong, squally winds and gales from the south-westward consequently prevailed all over the British Islands and their neighbourhood, and were accompanied by high temperatures, humid air, and much rain—especially over the south-western half of Ireland, where, in some places, the fall was about four times the mean amount for the week. Thunderstorms occurred on the 30th.

On Friday, the barometer had risen considerably in the north-west, and, as the South-Westerly current failed, the distribution of pressure became more complex, and temperature began to fall. At the close of the week, Easterly and South-Easterly winds were setting in over Ireland and England, while Westerly gales prevailed over Spain, and the weather over our Islands was becoming inclement generally.

BRIGHT SUNSHINE Values for the Week, in addition to those found on page 308.

Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration.	Difference from the Mean for the Week.	Stations.	No. of Hours recorded.	Difference from the Mean for the Week.	Percentage of possible Duration	Difference from the Mean for the Week.
EDINBURGH	4·1	- 1·7	9	- 2	EASTBOURNE	5·1	- 7·7	9	-14
OSWALDKIRK (Yorkshire)	3·3	- 4·8	6	-10	VENTNOR HOSPITAL	4·7	?	9	?
WORKSOP	3·7	- 4·0	7	- 7	SOUTHPORT	7·3	?	14	?
THURCASTON (Leicestershire)	9·1	+ 2·1	18	+ 5	COLWYN BAY				
MARGATE	2·6	- 8·0	5	-14	TENBY	13·8*	+ 3·7	26*	+ 6
WESTBOURNE (Sussex)	5·1*	- 6·7	9*	-12	NEWQUAY	12·3	+ 1·0	22	+ 1
BRIGHTON	2·2	- 9·3	4	-17	TORQUAY	11·5*	- 0·5	21*	- 1
					GUERNSEY	11·1*	+ 0·3	19*	+ 1

* The values at Westbourne, Tenby, Torquay, and Guernsey are obtained by Jordan's Photographic Recorder.

REPORTS received too late for insertion in their proper places.

Date of Report.	Names of Stations.	Temperature. (In Degrees Fahrenheit,) Highest observed.	Lowest observed.	Averages for the week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean for the Week.	Accumulated Heat for the Week (in Day-Degrees). Above 42° F.	Below 42° F.	Rainfall. Number of Days with Rain.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Difference from the Mean for the Week.	Percentage of Possible duration.	Difference from the Mean for the Week.
		°	°	°	°	°	°	°	°		Inches.	Inches.				
Week ending Oct. 30th, 1897	Edgeworthstown	59	40	57·0	43·0	49·8	+ 5·2	55	0	2	0·31	- 0·41	—	—	—	—
" " " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	22·8	-1·2	33	- 1
" " Nov. 13th, "	Blackpool	57	40	54·4	46·0	50·2	+ 6·2	57	0	—	—	—	—	—	—	—
" " " 20th, "	Laudale	58	27	53·2	39·0	46·1	+ 3·3	41	8	6	0·84	- 1·23	—	—	—	—
" " " " "	Killarney	56	29	53·4	39·6	46·5	+ 1·4	42	7	4	1·36	?	—	—	—	—
" " " " "	Newquay	—	—	—	—	—	—	—	—	—	—	—	21·5	+3·5	35	+ 6
" " Dec. 11th, "	Guernsey	—	—	—	—	—	—	—	—	—	—	—	13·0	+2·7	23	+ 5
" " " 18th, "	Newquay*	—	—	—	—	—	—	—	—	—	—	—	15·3	+3·0	28	+ 6
" " " 25th, "	Arlington	47	30	42·4	34·4	38·6	- 1·3	1	28	0	—	- 1·28	—	—	—	—

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QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1898.

VOL. XV. APPENDIX I.]
New Series.

FIRST QUARTER—JANUARY TO MARCH.

[*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FIRST QUARTER OF THE THIRTY-THREE YEARS, 1866 TO 1898.

	YEARS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.										Principal Grazing, &c. Districts.										CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
				1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE GRAZING, &C. DISTRICTS.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	12·6	—	9·6	—	5·4	—	5·7	—	6·9	—	8·5	—	7·2	—	12·6	—	11·8	—	13·7	—	11·8	—	11·0	—	12·2	—	—	—	9·7
	Means for 5 years, 1871-75	—	9·1	—	7·8	—	4·9	—	4·4	—	6·6	—	7·1	—	6·2	—	11·1	—	10·4	—	13·7	—	9·5	—	10·5	—	11·0	—	—	—	8·6
	Means for 5 years, 1876-80	—	9·5	—	7·2	—	5·3	—	5·7	—	6·2	—	7·2	—	6·3	—	11·2	—	9·5	—	9·9	—	9·2	—	10·0	—	10·0	—	—	—	8·2
	Means for 5 years, 1881-85	65	9·9	49	6·2	45	5·2	44	5·1	45	6·4	43	6·4	45	5·9	58	12·5	50	8·8	53	9·7	61	9·4	58	11·9	56	10·5	57	8·2	51	8·2
	1886	70	9·5	55	5·9	56	6·3	54	4·9	49	6·5	48	6·3	53	6·0	57	11·2	54	9·0	57	10·8	58	10·0	55	11·2	56	10·4	68	8·9	55	8·2
	1887	60	12·1	43	5·3	38	3·8	33	3·8	35	4·1	34	4·1	36	4·2	47	9·7	38	5·9	38	5·5	47	7·3	40	7·6	41	7·2	42	4·3	39	5·7
	1888	62	10·2	55	6·9	49	5·8	50	5·1	43	4·6	46	5·8	49	5·6	41	8·6	51	5·0	48	7·1	47	7·2	41	7·6	46	7·1	61	7·3	48	6·4
	1889	72	13·8	52	4·8	46	4·8	47	3·9	43	5·6	47	5·1	47	4·8	48	10·6	51	6·0	48	9·1	66	8·6	55	8·6	56	8·6	58	6·7	52	6·7
	1890	67	15·2	54	8·1	48	5·3	52	5·6	46	5·1	46	5·6	49	5·9	60	13·6	56	8·4	53	8·9	62	8·7	58	12·7	58	10·5	54	8·3	54	8·2
	Means for 5 years, 1886-90	66	12·2	52	6·2	47	5·2	47	4·7	43	5·2	44	5·4	47	5·3	53	10·7	50	6·9	49	8·3	56	8·4	50	9·5	52	8·8	57	7·1	50	7·1
	1891	65	14·7	38	5·1	43	3·7	43	3·8	37	4·1	38	5·8	40	4·5	47	9·2	35	4·4	38	6·8	49	5·5	42	5·6	42	6·3	43	6·2	41	5·4
	1892	63	11·2	46	5·5	47	4·4	49	4·0	44	4·0	38	3·7	45	4·3	47	8·0	46	6·3	47	6·4	49	5·9	45	7·6	47	6·8	52	6·9	47	5·6
	1893	65	12·8	51	5·9	44	4·5	49	5·2	48	5·0	48	5·9	48	5·3	57	10·0	49	6·4	49	8·7	59	7·8	50	8·7	53	8·3	56	7·3	52	6·8
	1894	68	21·1	56	11·0	51	5·4	47	4·2	54	5·8	49	6·3	51	6·5	64	18·6	56	9·9	56	10·5	64	12·3	61	10·9	60	12·4	56	7·7	56	9·5
	1895	59	9·8	48	6·4	58	7·5	52	5·0	42	5·4	41	4·7	48	5·9	48	6·7	48	6·7	46	8·1	56	7·7	48	9·5	49	7·7	55	7·3	49	6·8
	Means for 5 years, 1891-95	64	13·9	48	6·8	49	5·1	48	4·6	45	4·9	43	5·3	47	5·3	53	10·5	47	6·7	47	8·1	55	7·8	49	8·5	50	8·3	52	7·1	49	6·8
	1896	68	17·8	50	4·8	39	4·1	47	4·9	45	4·3	42	4·4	45	4·5	61	12·1	53	8·3	50	6·9	56	9·2	51	8·8	54	9·1	53	4·9	50	6·8
	1897	65	11·0	57	6·9	59	6·4	57	6·9	54	7·9	52	9·2	56	7·5	58	11·0	61	7·9	65	13·0	66	9·6	61	11·8	62	10·7	70	11·6	59	9·1
	1898	77	18·7	52	4·8	44	3·4	41	3·5	39	2·9	37	3·5	43	3·6	62	10·5	50	7·3	48	6·0	61	7·8	44	6·6	53	7·6	56	4·4	48	5·6
	Means for 33 years, 1866-98	—	11·6	—	7·1	—	5·1	—	5·0	—	5·9	—	6·6	—	5·9	—	11·4	—	8·9	—	10·4	—	9·3	—	10·1	—	10·0	—	—	—	8·0
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	38°8		39°1		38°9		39°9		39°9		40°7		39°7		40°1		40°5		43°1		40°6		42°1		41°3		—		40°5	
	Means for 5 years, 1871-75	40°2		40°0		39°7		39°9		40°5		41°2		40°3		40°8		41°6		44°0		41°6		43°7		42°3		—		41°3	
	Means for 5 years, 1876-80	33°6		38°2		39°2		39°4		39°8		40°6		39°4		39°9		40°2		43°2		40°8		43°6		41°5		—		40°5	
	Means for 5 years, 1881-85	38°8		38°9		39°4		39°8		39°9		41°4		39°9		40°2		40°5		42°7		41°3		43°1		41°6		44°9		44°8	
	1886	36°5		36°1		36°2		35°6		36°0		37°2		36°2		37°2		36°9		38°4		38°6		40°0		38°2		42°0		37°2	
	1887	39°4		39°2		38°7		37°5		37°8		38°7		38°4		39°8		39°0		40°4		41°3		42°3		40°6		42°7		39°5	
	1888	36°2		36°3		37°3		36°5		36°8		37°4		36°9		38°1		37°7		38°5		39°4		40°5		38°8		51°6		37°9	
	1889	38°5		38°6		38°6		37°5		38°2		39°0		38°4		40°1		39°7		40°8		41°3		42°9		41°0		44°1		39°7	
	1890	40°0		39°8		40°7		40°1		40°4		41°6		40°5		41°3		41°2		42°7		42°0		43°5		42°1		45°7		41°3	
	Means for 5 years, 1886-90	38°1		38°0		38°3		37°4		37°8		38°8		38°1		39°3		38°9		40°2		40°5		41°8		40°1		43°2		39°1	
	1891	38°4		38°0		37°9		37°4		38°0		38°4		37°9		39°6		39°5		40°2		40°8		42°3		40°5		43°1		39°2	
	1892	36°3		36°1		36°9		36°3		36°6		38°3		36°8		37°9		37°9		39°7		39°2		40°3		39°0		43°0		37°9	
	1893	38°8		38°8		40°2		39°8		40°3		41°3		40°1		40°7		41°2		42°8		42°2		43°8		42°1		46°0		41°1	
	1894	39°2		38°8		39°8		40°0		40°4		41°8		40°2		41°0		42°0		42°7		41°8		43°6		42°2		45°5		41°2	
	1895	34°3		32°5		34°9		34°4		33°6		35°3		34°1		34°8		35°0		36°4		36°5		38°4		36°2		39°9		35°2	
	Means for 5 years, 1891-95	37°4		36°8		37°9		37°6		37°8		39°0		37°8		38°8		39°1		40°4		40°1		41°7		40°0		43°5		38°9	
	1896	40°9		40°4		41°2		40°9		41°4		42°7		41°3		42°3		42°5		43°9		43°4		45°5		43°5		46°7		42°4	
	1897	37°5		37°4		39°4		39°8		39°8		41°7		39°6		39°5		40°4		42°5		40°6		42°8		41°2		45°7		40°4	
	1898	40°1		40°3		41°1		40°5		40°7		42°2		41°0		42°0		42°1		43°0		42°7		44°3		42°8		45°8		41°9	
	Means for 33 years, 1866-98	38°7		38°6		39°1		39°1		39°4		40°5		39°3		40°0		40°2		42°3		41°0		42°8		41°3		—		40°3	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-THREE YEARS, 1866 TO 1898.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 3·6 in 1898	Ins. 6·3 in 1891	Ins. 5·4 in 1891
	Wettest	9·0 in 1872	14·9 in 1872	12·0 in 1872
Temperature	Coldest	°34·1 in 1895	°38·2 in 1895	°35·2 in 1895
	Warmest	42·8 in 1882	44·6 in 1882	43·7 in 1882

TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE FIRST QUARTER, 1898.

YEAR AND MONTHS.	0. SCOTLAND, N.		Principal Wheat-producing Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		Principal Grazing, &c. Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE GRAZING, &C. DISTRICTS.		CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.	For the Month.	From Jan. 2.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
Jan. -	25	25	13	13	9	9	8	8	7	7	6	6	9	9	19	19	14	14	11	11	15	15	12	12	14	14	12	12	12	12
Feb. -	26	50	19	32	16	25	16	24	17	24	16	22	17	26	21	40	22	36	21	32	24	39	18	30	21	35	23	35	19	31
Mar. -	27	77	20	52	19	44	17	41	15	39	15	37	17	43	22	62	14	50	16	48	22	61	14	44	18	53	21	56	18	49
RAINFALL.—AMOUNTS IN INCHES.																														
Jan. -	5·87	5·87	1·17	1·17	0·76	0·76	0·81	0·81	0·65	0·65	0·51	0·51	0·78	0·78	3·30	3·30	2·76	2·76	1·60	1·60	1·90	1·90	2·63	2·63	2·44	2·44	0·67	0·67	1·61	1·61
Feb. -	7·34	13·21	1·93	3·10	0·99	1·75	1·01	1·82	1·20	1·85	1·56	2·07	1·34	2·12	4·63	7·93	2·81	5·57	2·45	4·05	3·85	5·75	2·66	5·29	3·28	5·72	2·01	2·68	2·31	3·92
Mar. -	5·51	18·72	1·72	4·82	1·65	3·40	1·71	3·53	1·01	2·86	1·31	3·46	1·59	3·62	2·53	10·46	1·73	7·30	1·91	5·96	2·02	7·77	1·26	6·55	1·89	7·61	1·74	4·42	1·70	5·62
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
Jan. -	78	78	90	90	103	103	60	60	80	80	87	87	84	84	108	108	94	94	117	117	110	110	161	161	118	118	151	151	101	101
Feb. -	18	96	30	120	56	159	60	120	58	138	86	173	58	142	51	159	63	157	90	207	79	189	101	262	77	195	141	292	68	169
Mar. -	45	141	68	188	67	226	79	199	80	218	78	251	74	216	69	228	62	219	84	291	86	275	103	365	81	276	117	409	78	247
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
Jan. -	50	50	58	58	41	41	71	71	58	58	18	18	49	49	13	13	12	12	13	13	16	16	6	6	12	12	4	4	31	31
Feb. -	127	177	135	193	108	149	118	189	115	173	69	87	109	158	86	99	65	77	57	70	73	89	52	58	67	79	14	18	83	119
Mar. -	155	332	158	351	152	301	176	365	175	348	131	218	158	316	127	226	126	203	129	199	121	210	101	159	121	200	37	55	140	259
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
Jan. -	25	25	26	26	29	29	21	21	26	26	28	28	26	26	18	18	23	23	35	35	20	20	31	31	25	25	57	57	26	26
Feb. -	46	71	83	109	82	111	90	111	76	102	78	106	82	108	76	94	82	105	75	110	65	85	76	107	75	100	89	146	79	105
Mar. -	122	193	136	245	136	247	130	241	114	216	121	227	127	235	138	232	156	261	167	277	143	228	148	255	150	250	146	292	139	244
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
Jan. -	13	17	12	13	14	14	10	13	12	16	13	18	12	15	9	10	11	14	15	19	10	11	14	14	12	14	24	30	12	15
Feb. -	18	14	33	21	31	20	33	18	28	17	29	19	31	19	27	17	30	18	27	19	24	13	28	18	27	17	32	30	29	18
Mar. -	29	19	33	28	34	28	32	26	28	24	30	26	31	26	34	26	39	30	41	29	35	24	36	27	37	27	36	31	34	27

1898.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884–97. The whole of the values for 1878–98, however, have been corrected by information which may have been received since they were first published.

TABLE II. In this Table the monthly values for *January* are those for the first four weeks in the year; those for *February* are for the fifth to the eighth weeks; those for *March* are for the ninth to the thirteenth weeks.

The figures given in the columns headed "From Jan. 2" are the values for the whole period of 13 weeks elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for "the Grazing, &c. Districts" the values for the "Channel Islands" are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1897.

VOL. XIV. APPENDIX I.] *New Series.* SECOND QUARTER—APRIL TO JUNE. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE SECOND QUARTER OF THE THIRTY-TWO YEARS, 1866 TO 1897.

	YEARS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.										CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
				1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE GRAZING, &C. DISTRICTS.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	8·8	—	5·7	—	5·5	—	4·5	—	5·3	—	5·1	—	5·2	—	7·1	—	6·5	—	7·0	—	7·5	—	7·2	—	7·1	—	—	—	6·2
	Means for 5 years, 1871-75	—	8·5	—	6·5	—	5·5	—	5·5	—	6·4	—	6·4	—	6·1	—	7·3	—	7·4	—	7·9	—	7·5	—	6·2	—	7·3	—	—	—	6·7
	Means for 5 years, 1876-80	—	6·3	—	6·9	—	7·1	—	7·2	—	7·7	—	7·1	—	7·2	—	8·5	—	7·8	—	9·0	—	8·3	—	9·8	—	8·7	—	—	—	8·0
	Means for 5 years, 1881-85	51	6·7	44	5·2	43	5·8	39	5·9	41	6·5	38	5·6	41	5·8	47	8·1	42	7·0	44	7·2	52	7·2	46	7·7	46	7·4	45	5·6	44	6·6
	1886	59	6·7	46	6·4	46	6·1	43	5·2	50	9·4	45	6·4	46	6·7	48	8·8	49	9·4	46	7·3	50	7·9	50	8·2	49	8·3	50	6·2	48	7·5
	1887	45	6·2	32	3·7	33	3·0	35	3·6	31	4·0	31	3·8	32	3·6	34	5·8	27	3·8	29	3·5	29	4·5	26	3·3	29	4·2	35	3·8	31	3·9
	1888	56	8·5	44	7·1	43	5·1	43	5·1	41	6·0	42	6·2	43	5·9	49	11·4	43	6·4	46	7·5	50	9·8	49	10·1	47	9·0	50	6·6	45	7·5
	1889	50	4·9	42	5·8	39	5·0	43	7·3	41	8·1	41	5·7	41	6·4	44	7·7	40	6·8	40	5·9	45	7·2	46	7·6	43	7·0	39	5·3	42	6·7
	1890	58	8·5	52	5·6	41	4·7	41	4·5	40	4·7	42	6·3	43	5·2	50	10·1	45	6·0	51	8·1	54	6·3	58	8·5	52	7·8	55	7·7	48	6·5
	Means for 5 years, 1886-90	54	7·0	43	5·7	40	4·8	41	5·1	41	6·4	40	5·7	41	5·5	45	8·8	41	6·5	42	6·5	46	7·1	46	7·5	44	7·3	46	5·9	43	6·4
	1891	45	6·3	36	4·4	35	4·3	41	5·5	43	6·7	38	4·8	39	5·1	36	5·0	39	5·9	42	7·2	46	6·1	45	8·4	42	6·5	41	6·2	41	5·8
	1892	59	9·1	51	6·4	51	7·3	42	6·1	38	5·5	31	3·7	43	5·8	49	10·0	50	8·3	37	4·6	56	9·6	46	8·0	47	8·1	37	4·8	45	7·0
	1893	41	5·2	36	5·1	28	3·2	22	2·3	23	3·1	20	1·7	26	3·1	30	5·4	27	4·2	21	3·0	33	4·9	30	4·3	28	4·5	17	2·1	27	3·8
	1894	47	6·1	49	6·6	54	7·2	48	7·1	45	5·9	44	5·8	48	6·5	53	8·3	55	7·0	51	7·5	56	8·0	53	9·7	54	8·1	53	6·7	51	7·3
	1895	49	8·9	38	4·9	32	4·1	27	2·9	28	4·1	26	2·9	30	3·8	40	4·7	30	4·4	26	4·3	42	4·3	33	4·6	34	4·5	31	3·6	32	4·2
	Means for 5 years, 1891-95	48	7·1	42	5·5	40	5·2	36	4·8	35	5·1	32	3·8	37	4·9	42	6·7	40	6·0	35	5·3	46	6·6	41	7·1	41	6·3	36	4·7	39	5·6
	1896	54	9·0	42	5·0	37	3·2	33	3·8	30	3·8	28	3·0	34	3·8	37	6·3	35	4·4	24	2·8	41	6·1	34	3·8	35	4·7	29	2·8	35	4·3
	1897	49	8·7	47	8·0	39	5·4	39	5·3	40	6·7	35	5·4	40	6·2	54	9·9	47	8·0	44	8·0	55	10·6	53	10·0	51	9·3	49	6·3	46	7·7
	Means for 32 years, 1866-97	—	7·5	—	5·9	—	5·6	—	5·4	—	6·2	—	5·5	—	5·7	—	7·8	—	6·8	—	7·0	—	7·4	—	7·6	—	7·3	—	—	—	6·5
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	48·5		50·4		49·8		52·7		53·1		53·1		51·8		51·3		51·8		53·9		52·5		53·0		52·5		—		52·2	
	Means for 5 years, 1871-75	48·2		49·3		49·6		51·0		52·0		52·1		50·3		51·1		51·3		53·0		51·6		53·3		52·1		—		51·5	
	Means for 5 years, 1876-80	47·2		48·9		49·4		51·1		51·3		51·9		50·5		50·2		50·5		52·0		50·1		52·0		51·0		—		50·3	
	Means for 5 years, 1881-85	46·8		49·5		50·0		51·8		51·8		52·9		51·2		50·0		50·8		51·6		50·6		51·6		50·9		52·7		51·1	
	1886	45·6		47·8		47·9		50·5		50·5		52·0		49·7		48·1		49·4		51·2		48·9		50·8		49·7		52·1		49·7	
	1887	48·4		50·5		50·3		51·4		52·0		53·4		51·3		51·0		51·2		52·6		52·2		53·3		52·1		53·2		51·7	
	1888	46·5		47·6		48·4		50·5		50·5		51·1		49·6		49·4		49·9		50·8		50·0		51·8		50·4		51·9		50·0	
	1889	49·7		50·9		51·3		53·1		53·4		54·7		52·7		51·9		52·6		53·0		51·7		53·4		52·3		54·0		52·5	
	1890	48·0		49·2		49·8		51·4		51·2		52·6		50·8		50·2		51·0		52·0		50·9		52·1		51·2		52·9		51·0	
	Means for 5 years, 1886-90	47·6		49·2		49·5		51·4		51·5		52·6		50·8		50·1		50·8		51·9		50·7		52·1		51·1		52·8		51·0	
	1891	47·5		48·2		48·8		50·7		50·8		52·3		50·2		50·1		50·5		51·5		50·5		51·7		50·9		53·0		50·3	
	1892	46·8		48·2		49·6		51·6		51·6		52·5		50·7		49·6		50·8		51·8		50·6		52·2		51·0		53·6		50·9	
	1893	51·0		52·0		52·0		54·2		55·3		56·3		54·0		53·6		54·9		56·5		54·8		56·1		55·2		57·6		54·6	
	1894	48·4		48·3		49·3		51·5		51·4		53·2		50·7		50·0		51·2		52·1		50·5		52·2		51·2		53·8		51·0	
	1895	49·2		50·3		50·8		52·3		53·0		53·5		52·0		51·6		52·2		53·2		52·0		53·1		52·4		54·0		52·3	
	Means for 5 years, 1891-95	48·6		49·4		50·1		53·1		52·4		53·6		51·5		51·0		51·9		53·0		51·7		53·1		52·1		51·4		51·8	
	1896	49·8		51·7		51·8		52·6		53·4		54·2		52·7		52·5		53·5		54·4		53·1		54·4		53·6		55·4		53·2	
	1897	47·4		48·3		49·6		52·1		52·0		53·7		51·1		49·9		51·2		53·1		50·0		52·5		51·3		54·4		51·2	
	Means for 32 years, 1866-97	47·9		49·6		49·8		51·7		52·1		52·8		51·2		50·6		51·3		52·7		51·2		52·6		51·7		—		51·5	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-TWO YEARS, 1866 TO 1897.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 3·1 in 1870 and 1893	Ins. 4·2 in 1887	Ins. 3·8 in 1893
	Wettest	9·4 in 1879	10·3 in 1872 and 1878 10·2 in 1879 and 1882	9·8 in 1879
Temperature	Coldest	° 48·4 in 1879	° 46·1 in 1879 and 1885	° 48·8 in 1879
	Warmest	54·9 in 1868 and 1893	55·2 in 1893	54·6 in 1893

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE SECOND QUARTER, 1897.

YEAR AND MONTHS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE &C. GRAZING, DISTRICTS.					
	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																												
April -	14	79	14	71	14	73	14	71	16	70	13	67	14	70	16	74	16	77	19	84	19	85	20	81	18	80	20	90	16	76
May -	17	96	14	85	10	83	12	83	9	79	10	77	11	81	13	87	12	89	12	96	14	99	11	92	12	92	12	102	12	88
June -	18	114	19	104	15	98	13	96	15	94	12	89	15	96	25	112	19	108	13	109	22	121	22	114	20	112	17	119	18	106
RAINFALL.—AMOUNTS IN INCHES.																												
April -	2·52	13·53	1·72	8·62	1·38	7·79	1·62	8·50	2·09	10·04	1·72	10·93	1·71	9·18	2·76	13·77	2·79	10·67	3·75	16·77	3·19	12·76	3·94	15·71	3·29	13·94	2·44	14·03	2·50	11·56
May -	3·36	16·89	2·12	10·74	1·43	9·22	1·22	9·72	1·26	11·30	0·97	11·90	1·40	10·58	2·04	15·81	1·37	12·04	1·39	18·16	1·83	14·59	1·36	17·07	1·60	15·54	1·23	15·26	1·50	13·06
June -	2·78	19·67	4·15	14·89	2·61	11·83	2·59	12·22	3·31	14·61	2·73	14·63	3·06	13·64	5·06	20·87	3·87	15·91	2·89	21·05	5·59	20·18	4·66	21·73	4·41	19·95	2·66	17·92	3·74	16·80
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																												
April -	105	196	115	234	108	277	150	362	146	364	164	410	137	330	115	250	123	296	154	423	118	303	149	460	132	347	203	608	135	340
May -	137	333	173	407	155	432	224	586	226	590	256	666	207	537	194	444	196	492	249	672	202	505	238	698	216	563	260	868	212	552
June -	362	695	417	824	481	913	594	1180	587	1177	636	1302	543	1080	469	913	534	1026	598	1270	459	964	547	1245	521	1084	624	1492	532	1084
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																												
April -	80	572	90	619	53	453	56	474	54	480	13	290	53	463	57	422	40	362	13	219	50	390	11	242	36	326	0	68	45	395
May -	43	615	42	661	18	471	19	493	24	504	7	297	22	485	19	441	5	367	4	223	13	403	0	242	8	334	0	68	15	410
June -	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	441	0	367	0	223	0	403	0	242	0	334	0	68	0	410
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																												
April -	155	311	143	317	143	338	146	359	139	341	157	376	146	347	153	339	153	334	133	361	127	333	124	361	138	345	134	373	142	347
May -	185	496	186	503	200	538	217	576	217	558	225	601	209	556	218	557	242	576	220	581	201	534	206	567	217	562	218	591	213	560
June -	183	679	160	663	177	715	214	790	192	750	228	829	194	750	156	713	192	768	270	851	129	663	150	717	179	741	284	875	187	747
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																												
April -	39	23	37	25	37	26	37	27	36	25	41	27	38	26	39	25	39	24	35	27	33	25	32	28	36	26	35	29	37	26
May -	40	28	41	29	45	30	50	32	50	31	52	33	48	31	49	30	55	30	51	32	45	29	47	31	49	30	51	34	49	31
June -	30	30	26	29	30	32	37	35	33	33	40	36	33	33	26	32	33	33	48	37	22	30	26	33	31	33	51	38	32	33

1897.

EXPLANATION OF TABLES.

TABLES I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884–96. The whole of the values for 1878–97, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *April* are those for the fourteenth to the seventeenth weeks in the year; those for *May* are for the eighteenth to the twenty-first weeks; those for *June* are for the twenty-second to the twenty-sixth weeks.

The figures given in the columns headed "From Jan. 3" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for the Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1897.

VOL. XIV. APPENDIX I.] *New Series.* THIRD QUARTER—JULY TO SEPTEMBER. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE THIRD QUARTER OF THE THIRTY-TWO YEARS, 1866 TO 1897.

	YEARS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
				1. SCOTLAND E.		2. ENGLAND, N.E		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N		10. IRELAND, S.		MEANS FOR THE GRAZING, &C. DISTRICTS.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches	Days	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days	Inches.	Days.	Inches.	Days	Inches.	Days.	Inches.	Days	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	10·6	—	8·4	—	6·3	—	6·1	—	7·4	—	7·3	—	7·2	—	10·9	—	9·9	—	10·1	—	9·8	—	8·6	—	9·8	—	—	—	8·6
	Means for 5 years, 1871-75	—	13·1	—	10·7	—	8·4	—	7·5	—	9·1	—	8·0	—	8·7	—	13·2	—	12·9	—	14·1	—	12·2	—	10·8	—	12·6	—	—	—	10·7
	Means for 5 years, 1876-80	—	9·0	—	8·9	—	9·2	—	9·0	—	10·1	—	8·7	—	9·2	—	11·7	—	12·3	—	11·6	—	11·1	—	10·7	—	11·5	—	—	—	10·4
	Means for 5 years, 1881-85	56	7·8	51	7·9	46	7·3	45	7·4	45	7·5	44	6·6	46	7·3	53	11·8	49	9·8	52	10·0	60	10·3	53	10·2	53	10·4	54	7·6	50	8·9
	1886	59	8·7	43	5·0	41	6·8	38	6·5	39	6·4	35	5·8	39	6·1	48	11·4	42	10·3	40	9·3	54	9·3	53	10·9	47	10·2	48	7·2	43	8·1
	1887	63	10·3	53	7·6	44	6·1	42	5·4	35	5·2	35	5·8	42	6·0	49	10·8	43	7·1	37	7·3	55	10·5	46	7·9	46	8·7	40	6·2	44	7·4
	1888	55	9·3	52	7·1	49	9·2	53	8·4	43	7·9	46	7·9	50	8·1	53	9·7	50	9·6	53	9·8	54	9·5	44	8·4	51	9·4	51	7·8	51	8·8
	1889	58	11·0	51	8·8	48	7·7	48	9·1	44	7·8	41	6·6	46	8·0	51	10·8	48	10·2	50	9·1	60	11·9	50	9·8	52	10·4	47	6·0	49	9·2
	1890	65	12·1	54	8·4	48	8·3	44	7·2	47	6·6	44	8·6	47	7·8	44	12·0	53	9·2	52	9·8	65	10·2	55	8·4	56	9·9	44	8·1	52	8·9
	Means for 5 years, 1886-90	60	10·3	51	7·4	46	7·6	45	7·3	43	6·8	40	6·9	45	7·2	51	10·9	47	9·3	46	9·1	58	10·3	50	9·1	50	9·7	46	7·1	48	8·5
	1891	71	15·9	59	11·7	51	8·8	51	8·5	52	7·9	52	9·0	53	9·2	62	14·9	55	13·8	56	12·9	66	11·3	56	11·0	59	12·8	51	9·7	56	11·0
	1892	66	15·0	51	8·3	44	6·6	40	8·2	46	7·5	44	8·4	45	7·8	53	15·5	53	12·1	51	10·0	62	12·0	53	13·2	54	12·5	43	7·2	50	10·2
	1893	70	15·7	55	8·1	49	6·8	45	5·9	43	6·0	43	7·0	47	6·8	53	11·3	54	10·4	47	9·9	60	11·2	52	8·7	53	10·3	51	9·8	50	8·6
	1894	53	10·5	48	8·9	49	6·2	54	7·6	44	6·8	51	9·2	49	7·7	40	7·3	44	8·0	52	10·7	54	6·8	45	8·8	47	8·3	54	11·9	48	8·0
	1895	63	14·0	51	9·6	44	7·9	34	8·3	40	6·6	37	6·8	41	7·8	54	12·7	46	9·3	40	8·3	57	10·9	49	10·1	49	10·3	39	5·7	45	9·1
	Means for 5 years, 1891-95	65	14·2	53	9·3	47	7·3	45	7·7	45	7·0	45	8·1	47	7·9	52	12·3	50	10·7	49	10·4	60	10·4	51	10·4	52	10·8	48	8·9	50	9·4
	1896	59	13·5	59	9·3	52	6·9	49	8·2	51	8·3	46	9·1	51	8·4	60	13·9	55	11·3	49	10·0	64	13·5	56	12·7	57	12·3	50	9·6	54	10·4
	1897	58	12·2	53	7·7	42	7·4	41	6·9	42	7·4	41	6·6	44	7·2	55	11·9	47	10·0	53	11·7	59	10·5	56	11·0	54	11·0	53	9·1	49	9·1
	Means for 32 years, 1866-97	—	11·0	—	8·8	—	7·7	—	7·5	—	8·0	—	7·6	—	7·9	—	11·9	—	10·8	—	10·9	—	10·8	—	10·1	—	10·9	—	—	—	9·4
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	° 54·4		° 57·1		° 57·0		° 59·7		° 59·7		° 60·1		° 58·7		° 57·9		° 59·0		° 61·0		° 58·5		° 59·5		° 59·2		° —		° 59·0	
	Means for 5 years, 1871-75	54·5		56·7		57·5		59·7		59·6		60·0		58·7		57·7		58·5		60·4		57·2		58·8		58·5		—		58·6	
	Means for 5 years, 1876-80	54·1		56·4		57·6		59·6		59·3		60·3		58·6		57·2		58·1		59·9		56·8		59·0		58·2		—		58·4	
	Means for 5 years, 1881-85	53·1		56·3		57·3		59·0		58·2		59·9		58·1		55·9		57·2		58·1		56·2		57·2		56·9		59·8		57·6	
	1886	52·4		56·1		58·1		60·2		59·7		61·3		59·1		55·8		57·7		59·4		56·5		58·2		57·5		61·0		58·3	
	1887	52·9		55·8		57·1		59·1		58·2		59·7		58·0		55·6		57·5		58·7		56·5		58·4		57·3		61·2		57·7	
	1888	51·7		53·2		54·4		57·1		55·8		58·0		55·7		54·2		55·4		56·7		55·0		56·2		55·5		58·9		55·6	
	1889	53·2		54·7		56·4		58·1		57·5		59·4		57·2		55·5		56·9		58·0		56·1		57·5		56·8		60·3		57·0	
	1890	53·8		55·7		57·7		58·8		58·1		59·8		58·0		56·1		57·5		58·1		56·5		57·6		57·2		59·2		57·6	
	Means for 5 years, 1886-90	52·8		55·1		56·7		58·7		57·9		59·6		57·6		55·4		57·0		58·2		56·1		57·6		56·9		60·1		57·3	
	1891	54·0		55·7		57·0		58·4		57·5		59·2		57·6		56·1		57·4		57·4		56·6		57·3		57·0		59·8		57·3	
	1892	52·1		53·5		55·4		57·6		56·5		59·2		56·4		54·4		56·2		57·6		55·1		57·0		56·1		60·6		56·3	
	1893	55·0		56·3		58·4		60·5		60·2		61·7		59·4		57·3		59·9		60·4		58·1		59·5		59·0		62·7		59·2	
	1894	54·5		55·1		56·5		58·0		57·2		59·3		57·2		55·5		57·2		57·6		55·9		56·7		56·6		60·1		56·9	
	1895	55·4		56·9		59·4		60·8		60·0		61·7		59·8		57·2		59·3		59·8		57·5		58·3		58·4		62·4		59·1	
	Means for 5 years, 1891-95	54·2		55·5		57·3		59·1		58·3		60·2		58·1		56·1		58·0		58·6		56·6		57·8		57·4		61·1		57·8	
	1896	53·8		55·1		57·6		59·4		58·3		60·9		58·3		56·1		58·1		59·4		56·1		58·1		57·6		61·8		58·0	
	1897	54·9		55·9		57·4		59·3		58·6		60·9		58·4		56·6		58·3		59·2		56·8		58·1		57·8		61·3		58·1	
	Means for 32 years, 1866-97	53·9		56·1		57·3		59·3		58·8		60·1		58·3		56·7		58·0		59·4		56·9		58·3		57·9		—		58·1	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-TWO YEARS, 1866 TO 1897.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 4·9 in 1870	Ins. 6·4 in 1870	Ins. 5·7 in 1870
	Wettest	10·6 in 1879	14·2 in 1872	12·4 in 1879
Temperature	Coldest	° 55·7 in 1888	° 55·5 in 1888	° 55·6 in 1888
	Warmest	60·9 in 1868	60·8 in 1868	60·9 in 1868

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE THIRD QUARTER, 1897.

YEAR AND MONTHS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT-PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR THE &C. GRAZING, DISTRICTS.					
	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
July -	12	126	11	115	6	104	7	103	8	102	5	94	7	103	12	125	9	117	10	119	13	134	12	126	11	123	9	128	9	115
August -	19	145	18	133	16	120	15	118	17	119	16	110	16	119	20	145	19	136	21	140	21	155	22	148	21	144	21	149	19	134
Sept. -	27	172	24	157	20	140	19	137	17	136	20	130	20	139	22	167	19	155	22	162	25	180	22	170	22	166	23	172	21	155
RAINFALL.—AMOUNTS IN INCHES.																														
July -	2·78	22·45	1·50	16·39	1·25	13·08	0·50	12·72	1·12	15·73	0·78	15·41	1·03	14·67	2·37	23·24	1·39	17·30	1·58	22·63	2·61	22·79	2·07	23·80	2·00	21·95	0·52	18·44	1·52	18·32
August -	3·15	25·60	3·81	20·20	2·62	15·70	2·44	15·16	2·67	18·40	2·63	18·04	2·83	17·50	4·01	27·25	3·83	21·13	4·20	26·83	4·16	26·95	4·86	28·66	4·21	26·16	3·38	22·42	3·52	21·84
Sept. -	6·29	31·89	2·34	22·54	3·56	19·26	3·91	19·07	3·62	22·02	3·16	21·20	3·32	20·82	5·48	32·73	4·76	25·89	5·93	32·76	3·69	30·64	4·05	32·71	4·78	30·94	4·59	27·01	4·05	25·89
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
July -	406	1101	437	1261	457	1370	529	1709	530	1707	588	1890	508	1588	459	1372	512	1538	555	1825	483	1447	519	1764	506	1590	585	2077	507	1591
August -	435	1536	462	1723	521	1891	564	2273	533	2240	583	2478	534	2122	483	1855	527	2065	526	2351	452	1899	491	2255	496	2086	579	2656	515	2106
Sept. -	310	1846	336	2059	384	2275	434	2707	396	2636	502	2980	410	2532	358	2213	406	2471	448	2799	378	2275	427	2682	403	2489	562	3218	407	2513
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
July -	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
August -	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
Sept. -	7	622	9	670	0	471	0	493	0	504	0	297	2	487	3	445	0	367	0	223	0	403	0	242	1	335	0	68	1	411
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
July -	172	851	218	881	217	932	237	1027	230	980	242	1071	229	979	197	910	220	988	206	1057	163	826	158	875	189	930	229	1104	209	956
August -	112	963	160	1041	197	1129	203	1230	192	1172	195	1266	189	1168	163	1073	174	1162	200	1257	139	965	146	1021	164	1094	206	1310	177	1133
Sept. -	123	1086	142	1183	142	1271	163	1393	151	1323	173	1439	154	1322	153	1226	161	1324	175	1432	150	1115	168	1189	161	1255	171	1481	158	1291
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
July -	36	31	47	31	48	33	53	37	52	35	55	39	51	35	43	33	48	35	47	39	36	30	35	32	42	34	53	41	47	35
August -	27	30	38	33	48	36	50	39	47	37	48	41	46	37	39	34	42	36	49	40	34	31	36	33	40	35	51	43	43	36
Sept. -	27	30	32	33	32	35	37	39	34	37	40	40	35	37	34	33	37	36	40	40	34	31	37	33	36	35	39	43	36	36

1897.

EXPLANATION OF TABLES.

TABLES I. and Ia. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884-96. The whole of the values for 1878-97, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *July* are those for the twenty-seventh to the thirtieth weeks in the year; those for *August* are for the thirty-first to the thirty-fourth weeks; those for *September* are for the thirty-fifth to the thirty-ninth weeks.

The figures given in the columns headed "From Jan. 3" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for "the Grazing, &c. Districts" the values for the "Channel Islands," are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

QUARTERLY SUMMARY OF THE WEEKLY WEATHER REPORT, 1897.

VOL. XIV. APPENDIX I.] *New Series.* FOURTH QUARTER—OCTOBER TO DECEMBER. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE FOURTH QUARTER OF THE THIRTY-TWO YEARS, 1866 TO 1897.

	YEARS.	Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.[a]	
		0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
		Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
RAINFALL (in Inches).	Means for 5 years, 1866-70	—	18·4	—	8·8	—	7·7	—	7·4	—	7·6	—	8·3	—	8·0	—	12·9	—	14·7	—	14·6	—	12·6	—	10·5	—	13·1	—	—	—	10·6
	Means for 5 years, 1871-75	—	17·2	—	10·4	—	7·7	—	7·2	—	7·9	—	9·9	—	8·6	—	13·1	—	13·3	—	16·3	—	11·1	—	12·1	—	13·2	—	—	—	10·9
	Means for 5 years, 1876-80	—	13·8	—	9·1	—	8·1	—	7·2	—	8·1	—	9·5	—	8·4	—	12·8	—	12·0	—	14·1	—	11·0	—	11·3	—	12·2	—	—	—	10·3
	Means for 5 years, 1881-85	68	12·7	54	7·2	55	7·3	59	8·8	55	8·6	52	8·9	55	8·2	58	15·8	56	11·0	62	13·7	64	11·8	61	11·8	60	12·8	67	12·4	58	10·5
	1886	75	14·3	60	7·8	56	10·0	58	9·5	64	10·9	67	14·4	61	10·5	65	16·8	69	14·3	75	19·1	71	15·5	69	18·0	70	16·3	85	16·3	66	13·4
	1887	73	13·0	55	7·8	59	7·7	56	6·3	47	5·9	50	7·8	53	7·1	51	12·4	55	8·1	55	12·0	57	10·0	47	9·7	53	10·4	64	11·9	53	8·8
	1888	69	15·9	57	9·3	46	5·7	42	5·6	43	8·4	50	8·6	48	7·5	57	16·8	56	10·1	61	14·0	60	10·4	63	13·8	61	13·0	66	10·2	55	10·3
	1889	65	12·3	52	6·6	49	6·6	51	6·0	47	5·3	46	8·2	49	6·5	58	13·3	58	9·4	59	11·8	61	10·8	59	11·6	58	11·4	66	12·2	54	9·0
	1890	74	19·3	62	10·8	56	6·7	46	5·4	49	5·6	48	4·9	52	6·7	60	17·1	56	11·4	62	11·3	65	13·6	58	11·8	60	13·0	63	8·9	56	9·9
	Means for 5 years, 1886-90	71	15·0	57	8·5	53	7·3	51	6·6	50	7·2	52	8·8	53	7·7	58	15·3	59	10·7	62	13·6	64	12·1	59	12·6	60	12·9	69	11·9	57	10·3
	1891	61	15·9	51	9·7	52	7·8	62	9·0	60	11·4	62	13·6	57	10·3	60	20·8	58	14·2	64	18·2	64	12·4	61	16·5	61	16·4	66	14·6	59	13·4
	1892	65	14·5	53	8·0	55	7·3	49	8·9	48	6·1	47	8·6	50	7·8	57	13·0	56	10·5	57	10·1	68	10·5	59	11·3	59	11·1	63	10·3	55	9·5
	1893	76	24·2	57	8·2	52	5·9	55	7·7	50	6·7	51	8·9	53	7·5	65	16·4	61	10·4	56	12·1	65	10·1	57	10·4	61	11·9	61	9·2	57	9·7
	1894	66	15·8	48	7·4	54	7·0	56	7·7	53	8·9	52	10·8	53	8·4	62	15·3	58	11·4	55	16·2	60	10·9	53	14·1	58	13·6	58	12·3	56	11·0
	1895	66	16·6	58	10·6	55	8·2	52	7·4	53	8·6	56	10·5	55	9·1	53	14·2	59	11·9	65	16·6	63	12·7	62	13·8	60	13·8	74	15·3	58	11·5
	Means for 5 years, 1891-95	67	17·4	53	8·8	54	7·2	55	8·1	53	8·3	54	10·5	54	8·3	59	15·9	58	11·7	59	14·6	64	11·3	58	13·2	60	13·3	64	12·3	57	11·0
	1896	71	15·9	62	10·4	68	11·1	61	8·0	58	8·2	57	9·3	61	9·4	58	13·1	57	11·2	63	14·0	62	10·4	58	11·5	60	12·0	76	12·9	61	10·7
	1897	59	14·7	47	7·7	43	5·2	37	3·9	42	6·0	37	5·5	41	5·7	55	14·4	44	11·2	44	11·0	54	10·4	49	15·0	49	12·4	46	8·9	45	9·1
	Means for 32 years, 1866-97	—	15·7	—	8·8	—	7·6	—	7·5	—	7·9	—	9·2	—	8·2	—	14·3	—	12·2	—	14·4	—	11·6	—	12·0	—	12·9	—	—	—	10·6
MEAN TEMPERATURE (in Degrees Fahrenheit).	Means for 5 years, 1866-70	° 42·1		° 42·1		° 42·5		° 43·6		° 43·4		° 44·2		° 43·2		° 43·2		° 43·8		° 47·0		° 41·0		° 45·2		° 44·6		° —		° 43·9	
	Means for 5 years, 1871-75	42·4		41·8		42·7		42·9		42·8		43·6		42·8		42·7		43·6		46·3		43·3		45·4		44·3		—		43·6	
	Means for 5 years, 1876-80	41·7		41·6		42·3		42·9		42·4		44·2		42·7		42·9		43·7		47·1		43·6		45·6		44·6		—		43·7	
	Means for 5 years, 1881-85	42·6		42·0		43·4		43·4		43·0		45·1		43·4		43·5		44·1		46·5		43·9		45·6		44·7		49·1		44·1	
	1886	42·6		42·5		43·6		43·9		43·5		45·6		43·8		44·4		44·7		46·3		44·2		45·8		45·1		49·8		44·5	
	1887	39·2		39·4		40·3		40·2		39·9		41·7		40·3		40·7		41·3		42·7		41·8		42·8		41·9		46·5		41·1	
	1888	43·2		43·4		44·1		43·9		43·8		46·1		44·3		45·1		45·3		47·1		45·5		47·0		46·0		50·6		45·2	
	1889	43·1		42·2		43·1		43·0		42·7		44·9		43·2		44·4		44·1		45·8		45·0		46·2		45·1		49·1		44·2	
	1890	42·3		41·5		42·1		40·5		40·4		42·2		41·3		43·3		42·6		44·0		44·3		45·6		44·0		47·5		42·7	
	Means for 5 years, 1886-90	42·1		41·8		42·6		42·3		42·1		44·1		42·3		43·6		43·6		45·2		44·2		45·5		44·0		48·7		43·5	
	1891	42·0		40·8		42·3		43·6		42·5		45·6		43·0		43·4		43·7		45·9		43·3		44·8		44·2		49·4		43·6	
	1892	40·2		39·1		40·9		41·5		40·5		43·5		41·1		41·5		42·1		44·5		42·9		44·6		43·1		48·2		42·1	
	1893	41·9		42·0		44·0		43·9		43·4		45·3		43·7		44·1		45·3		46·0		44·0		45·5		45·0		49·4		44·4	
	1894	44·0		42·7		44·7		45·5		45·2		47·4		45·1		45·6		46·7		48·0		45·6		47·3		46·6		51·2		45·9	
	1895	41·2		40·5		43·0		43·8		42·9		46·0		43·2		43·0		44·2		46·6		43·0		45·3		44·4		51·0		43·8	
	Means for 5 years, 1891-95	41·9		41·0		43·0		45·7		42·9		45·6		43·2		43·5		44·4		46·2		43·8		45·5		44·7		49·8		44·0	
	1896	41·2		40·5		41·9		41·8		40·9		43·5		41·7		42·1		42·5		43·3		42·2		43·3		42·7		47·5		42·2	
	1897	43·2		42·9		45·0		44·4		44·2		47·4		44·8		45·8		46·6		48·1		46·2		48·4		47·0		51·5		45·9	
	Means for 32 years, 1866-97	42·1		41·7		42·8		43·1		42·8		44·5		43·0		43·3		43·9		46·3		43·8		45·5		44·6		—		43·8	

TABLE Ia.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST CORRESPONDING QUARTERS FOR THE THIRTY-TWO YEARS, 1866 TO 1897.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 3·4 in 1879	Ins. 5·0 in 1879	Ins. 4·2 in 1879
	Wettest	13·1 in 1872	18·6 in 1872	15·9 in 1872
Temperature	Coldest	° 40·3 in 1887	° 41·9 in 1887	° 41·1 in 1887
	Warmest	45·6 in 1866	47·0 in 1866 and 1897.	46·3 in 1866

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TABLE II.—SHOWING THE RAINFALL, ACCUMULATED TEMPERATURE, AND BRIGHT SUNSHINE FOR EACH MONTH, AND THE PROGRESSIVE VALUES FROM THE COMMENCEMENT OF THE YEAR, FOR THE FOURTH QUARTER, 1897.

YEAR AND MONTHS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.														Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.					
	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.	For the Month.	From Jan. 3.
RAINFALL.—NUMBERS OF DAYS WITH RAIN.																														
Oct. -	17	189	11	168	9	149	8	145	8	144	6	137	8	147	14	181	11	166	10	172	14	194	12	182	12	178	11	183	10	165
Nov. -	16	205	14	182	15	164	10	155	11	155	10	147	12	159	16	197	9	175	11	183	14	208	13	195	13	191	11	194	13	178
Dec. -	26	231	22	204	19	183	19	174	23	178	21	168	21	180	25	222	24	199	23	206	26	234	24	219	24	215	24	218	23	201
RAINFALL.—AMOUNTS IN INCHES.																														
Oct. -	3·48	35·37	1·99	24·53	1·18	20·44	0·64	19·71	1·13	23·15	0·48	21·68	1·08	21·90	2·52	35·60	1·61	27·50	1·43	34·19	2·59	33·23	3·75	36·46	2·38	33·39	1·76	28·77	1·73	27·66
Nov. -	3·94	39·31	1·59	26·12	1·41	21·85	0·79	20·50	1·20	24·35	1·01	22·69	1·20	23·10	4·16	39·76	3·03	30·53	2·42	36·61	2·31	35·54	4·66	41·12	3·32	36·71	1·17	29·94	2.26	29·92
Dec. -	7·32	46·63	4·11	30·23	2·63	24·48	2·50	23·00	3·67	28·02	3·97	26·66	3·38	26·48	7·67	47·43	6·54	37·07	7·18	43·79	5·50	41·04	6·62	47·74	6·70	43·41	5·26	35·90	5·04	34·96
ACCUMULATED HEAT.—DAY DEGREES ABOVE 42° F.																														
Oct. -	182	2028	186	2245	216	2490	224	2931	210	2845	304	3284	228	2759	222	2435	248	2719	294	3093	231	2506	287	2971	256	2745	381	3599	242	2755
Nov. -	120	2148	130	2375	145	2635	126	3057	122	2967	165	3449	138	2897	161	2596	163	2882	184	3277	166	2672	203	3174	175	2920	285	3884	157	2912
Dec. -	37	2185	39	2414	71	2706	72	3129	77	3044	105	3554	73	2970	78	2674	97	2979	125	3402	83	2755	154	3328	107	3028	203	4087	90	3002
ACCUMULATED HEAT.—DAY DEGREES BELOW 42° F.																														
Oct. -	17	639	26	696	6	477	10	503	14	518	0	297	11	498	6	451	0	367	0	223	1	404	0	242	1	336	0	68	6	417
Nov. -	32	671	29	725	15	492	48	551	40	558	8	305	28	526	3	454	3	370	3	226	6	410	3	245	4	340	0	68	16	433
Dec. -	160	831	194	919	128	620	139	690	150	708	72	377	137	663	93	547	80	450	57	283	99	509	37	282	73	413	4	72	105	538
BRIGHT SUNSHINE.—NUMBERS OF HOURS.																														
Oct. -	95	1181	100	1283	103	1374	120	1513	105	1428	131	1570	112	1434	99	1327	100	1424	96	1528	76	1191	112	1301	97	1353	114	1595	105	1396
Nov. -	35	1216	33	1316	26	1400	42	1555	35	1463	51	1621	37	1471	37	1364	47	1471	43	1571	47	1238	67	1368	48	1401	71	1666	43	1439
Dec. -	23	1239	37	1353	32	1432	52	1607	52	1515	75	1696	50	1521	37	1401	48	1519	76	1647	59	1297	73	1441	59	1460	84	1750	55	1494
BRIGHT SUNSHINE.—PERCENTAGES OF POSSIBLE DURATION.																														
Oct. -	35	30	35	33	36	35	41	39	36	37	45	40	39	37	35	33	35	35	33	40	27	31	39	33	33	34	39	42	36	36
Nov. -	15	30	15	32	11	34	17	38	14	36	21	40	16	36	16	32	19	35	17	39	20	30	27	33	20	34	28	42	18	35
Dec. -	10	28	15	31	13	33	19	37	19	35	28	39	19	35	15	31	18	34	27	38	23	30	28	33	22	33	30	41	21	34

1897.

EXPLANATION OF TABLES.

TABLE I. and IA. are merely in continuation of the Tables given in the Quarterly Summaries of the Weekly Weather Reports, 1884–96. The whole of the values for 1878–97, however, have been corrected by information received since they were first published.

TABLE II. In this Table the monthly values for *October* are those for the fortieth to the forty-third weeks in the year; those for *November* are for the forty-fourth to the forty-eighth weeks; those for *December* are for the forty-ninth to the fifty-second weeks.

The figures given in the columns headed "From Jan. 3" are the values for the whole period elapsed since the beginning of the first week of the year.

In the "Means for the Wheat Districts" the values for District 0, and in the "Means for "the Grazing, &c. Districts" the values for the "Channel Islands" are not included.

The Means for the British Islands generally are those for the Wheat Districts and Grazing Districts combined.

SUMMARY OF THE WEEKLY WEATHER REPORT, 1897.

VOL. XIV. APPENDIX I.] *New Series.* VALUES FOR THE WHOLE YEAR. [*Price 4d.*

TABLE I.—SUMMARY OF RAINFALL AND MEAN TEMPERATURE, FOR THE WHOLE YEAR DURING THE THIRTY-TWO YEARS, 1866 TO 1897.

RAINFALL (in inches).

YEARS.	0. Scotland, N.		Principal Wheat-producing Districts.										Principal Grazing, &c. Districts.										Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat-producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W		9. Ireland, N.		10. Ireland, S.		Means for the Grazing, &c. Districts.			
	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.	Days.	Inches.
Means for 5 years, 1866–70	—	50·4	—	32·9	—	25·0	—	23·3	—	27·3	—	29·2	—	27·6	—	43·5	—	42·9	—	45·4	—	41·7	—	37·4	—	42·2	—	—	—	34·9
Means for 5 years, 1871–75	—	47·8	—	35·4	—	26·5	—	24·6	—	30·1	—	31·4	—	29·6	—	44·7	—	44·0	—	52·0	—	40·3	—	39·3	—	44·1	—	—	—	36·9
Means for 5 years, 1876–80	—	38·6	—	32·0	—	29·8	—	29·0	—	32·2	—	32·5	—	31·1	—	44·2	—	41·4	—	44·6	—	39·6	—	41·9	—	42·3	—	—	—	36·7
Means for 5 years, 1881–85	241	37·1	198	26·4	188	25·5	187	27·2	186	29·0	177	27·4	187	27·1	216	48·1	198	36·6	211	40·7	236	38·6	217	41·7	216	41·1	222	33·8	202	34·1
1886	263	39·1	204	24·9	199	29·2	193	26·2	202	33·1	195	32·9	199	29·3	218	48·1	214	43·0	218	46·5	234	42·8	227	46·3	222	45·3	251	38·6	211	37·3
1887	241	41·6	183	24·4	174	20·6	166	19·1	148	19·2	150	21·5	164	21·0	181	38·7	163	24·9	159	28·3	188	32·3	159	28·5	170	30·5	181	26·2	167	25·8
1888	242	43·9	208	30·4	187	25·6	188	24·2	175	26·8	184	28·5	188	27·1	200	46·5	200	31·1	208	38·4	217	36·9	197	39·9	205	38·6	228	31·9	199	32·9
1889	245	42·0	197	26·0	182	24·1	189	26·3	175	26·8	175	25·6	185	25·8	211	42·4	197	32·4	197	35·9	232	38·5	210	37·6	209	37·4	210	30·2	200	31·6
1890	264	55·1	222	32·9	193	25·0	184	22·7	182	22·6	180	25·4	192	25·6	224	52·8	210	35·0	218	38·1	246	38·8	229	41·4	225	41·2	216	33·1	209	33·4
Means for 5 years, 1886–90	251	44·3	203	27·7	187	24·9	184	23·7	176	25·6	177	26·8	185	25·7	207	45·7	197	33·3	200	37·4	223	37·9	204	38·7	206	38·6	217	32·0	196	32·2
1891	242	52·8	184	30·9	181	24·6	197	26·8	192	30·1	190	33·2	188	29·1	205	49·9	186	38·3	200	45·1	225	35·3	204	41·5	203	42·0	201	36·7	197	35·6
1892	253	49·8	201	28·2	197	25·6	180	27·2	176	23·1	160	24·4	183	25·7	206	46·5	205	37·2	192	31·1	232	38·0	203	40·1	208	38·6	195	29·2	196	32·2
1893	252	57·9	199	27·3	173	20·4	171	21·1	164	20·8	162	23·5	174	22·6	205	43·1	191	31·4	173	33·7	217	34·0	189	32·6	195	35·0	185	28·4	185	28·8
1894	234	53·5	201	33·9	208	25·8	205	26·6	196	27·4	196	32·1	201	29·2	219	49·5	213	36·3	214	44·9	234	38·0	212	43·5	218	42·4	221	38·6	210	35·8
1895	237	49·3	195	31·5	189	27·7	165	24·2	163	24·7	160	24·9	174	26·6	196	38·3	183	32·3	177	37·3	218	35·6	192	38·0	193	36·3	199	31·9	184	31·5
Means for 5 years, 1891–95	244	52·7	196	30·4	190	24·8	184	25·2	178	25·2	174	27·6	184	26·6	206	45·5	196	35·1	191	38·4	225	36·2	200	39·1	204	38·9	200	33·0	194	32·8
1896	252	56·2	213	29·5	196	25·3	190	24·9	184	24·6	173	25·8	191	26·0	216	45·4	200	35·2	186	33·7	226	39·2	199	36·8	205	38·1	208	30·2	198	32·1
1897	231	46·6	204	30·3	183	24·4	174	23·0	178	28·0	168	26·7	180	26·5	222	47·5	199	37·1	206	43·7	234	41·1	219	47·8	215	43·4	218	35·9	201	35·0
Means for 32 years, 1866–97	—	45·5	—	30·7	—	26·0	—	25·5	—	28·1	—	29·0	—	27·9	—	45·4	—	38·7	—	42·8	—	39·1	—	39·9	—	41·2	—	—	—	34·6

MEAN TEMPERATURE (in Degrees Fahrenheit).

YEARS.	0. Scotland, N.	Principal Wheat-producing Districts.						Principal Grazing, &c. Districts.						Channel Islands.	British Islands generally.
		1. Scotland, E.	2. England, N.E.	3. England, E.	4. Midland Counties.	5. England, S.	Means for Wheat-producing Districts.	6. Scotland, W.	7. England, N.W.	8. England, S.W	9. Ireland, N.	10. Ireland, S.	Means for the Grazing, &c. Districts.		
	°	°	°	°	°	°	°	°	°	°	°	°	°	°	°
Means for 5 years, 1866–70	45·9	47·2	47·1	49·0	49·1	49·5	48·4	48·1	48·8	51·3	48·9	50·0	49·4	—	48·9
Means for 5 years, 1871–75	46·3	47·1	47·4	48·4	48·8	49·3	48·2	48·1	48·6	50·9	48·4	50·3	49·3	—	48·8
Means for 5 years, 1876–80	45·4	46·3	47·1	48·3	48·2	49·3	47·8	47·6	48·1	50·6	47·9	50·1	48·9	—	48·4
Means for 5 years, 1881–85	45·3	46·6	47·5	48·5	48·2	49·8	48·1	47·4	48·2	49·7	48·0	49·4	48·5	51·6	48·3
1886	44·3	45·6	46·4	47·5	47·4	49·0	47·2	46·3	47·1	48·8	47·0	48·7	47·6	51·2	47·4
1887	45·0	46·2	46·6	47·1	47·0	48·1	47·0	46·8	47·3	48·6	48·0	49·2	48·0	50·9	47·5
1888	44·4	45·1	46·1	47·0	46·7	48·2	46·6	46·7	47·1	48·3	47·5	48·9	47·7	50·8	47·2
1889	46·1	46·6	47·4	47·9	48·0	49·5	47·9	48·0	48·3	49·4	48·5	49·8	48·8	51·9	48·4
1890	46·0	46·6	47·6	47·7	47·5	49·1	47·7	47·7	48·1	49·2	48·4	49·7	48·6	51·3	48·2
Means for 5 years, 1886–90	45·2	46·1	46·8	47·4	47·3	48·8	47·3	47·1	47·6	48·9	47·9	49·3	48·2	51·2	47·8
1891	45·5	45·7	46·5	47·5	47·2	48·9	47·2	47·3	47·8	48·8	47·8	49·0	48·1	51·3	47·7
1892	43·9	44·2	45·7	46·8	46·3	48·4	46·3	45·9	46·8	48·4	47·0	48·5	47·3	51·4	46·8
1893	46·7	47·3	48·7	49·6	49·8	51·2	49·3	48·9	50·3	51·4	49·8	51·2	50·3	53·9	49·8
1894	46·5	46·2	47·6	48·8	48·6	50·4	48·3	48·0	49·3	50·1	48·5	50·0	49·2	52·7	48·8
1895	45·0	45·1	47·0	47·8	47·4	49·1	47·3	46·7	47·7	49·0	47·3	48·8	47·9	51·8	47·6
Means for 5 years, 1891–95	45·5	45·7	47·1	48·1	47·9	49·6	47·7	47·4	48·4	49·5	48·1	49·5	48·6	52·2	48·2
1896	46·4	46·9	48·1	48·7	48·5	50·3	48·5	48·3	49·2	50·3	48·7	50·3	49·4	52·9	49·0
1897	45·8	46·1	47·9	48·9	48·7	50·9	48·5	48·0	49·1	50·7	48·4	50·5	49·3	53·2	48·9
Means for 32 years, 1866–97	45·6	46·5	47·3	48·3	48·3	49·4	48·0	47·6	48·4	50·2	48·2	49·8	48·8	—	48·4

TABLE 1A.—SHOWING THE DATES OF THE DRIEST AND WETTEST, AND OF THE COLDEST AND WARMEST YEARS FOR THE THIRTY-TWO YEARS, 1866 TO 1897.

		Wheat Districts.	Grazing, &c. Districts.	Generally.
Rainfall	Driest	Ins. 21·0 in 1887	Ins. 30·5 in 1887	Ins. 25·8 in 1887
	Wettest	40·2 in 1872	58·0 in 1872	49·1 in 1872
Temperature	Coldest	° 45·5 in 1879	° 46·9 in 1879	° 46·2 in 1879
	Warmest	50·1 in 1868	50·7 in 1868	50·4 in 1868

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NOTES.

1.—Rainfall.

The mean values for the Rainfall in the districts given as Table I. in the various Quarterly Summaries were obtained as follows. Those for the years 1866 to 1877 were derived from observations made at the following stations :—

Districts.		Stations.
0. SCOTLAND, N.		Loch Broom.
		Helmsdale.
		Sandwick Manse.
1. SCOTLAND, E.		Inverness.
		Aberdeen.
		Ballater.
		Logierait.
		Stirling.
		Hawick.
2. ENGLAND, N.E.		N. Shields.
		York.
		Grimsby.
		Boston.
3. ENGLAND, E.	1866 to 1875.	Fakenham.
		Beccles.
		Witham.
		Bury St. Edmunds.
	1876 & 1877.	Yarmouth.
		Cambridge.
		Bury St. Edmunds.
4. MIDLAND COUNTIES		Leicester.
		Derby.
		Tenbury.
		Shiffnal.
		Cirencester.
		Banbury.
		Hitchin.
5. ENGLAND, S.		Bridport.
		Selborne.
		Maidstone.
		London (Camden Town).
6. SCOTLAND, W.		Dumfries.
		Ayr.
		Castle Toward.
7. ENGLAND, N.W., and N. WALES		Llandudno.
		Manchester.
		Skipton.
8. ENGLAND, S.W., and S. WALES		Barnstaple.
		Bodmin.
		Haverfordwest.
		Rhayader.
9. IRELAND, N.		Galway.
		Bunninadden, Co. Sligo. (Doo Castle.)
		Waringstown.
		Strabane.
10. IRELAND, S.		Cork.
		Waterford.
		Killaloe.
		Portarlington.
		Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.		Stations.
0. SCOTLAND, N.		Sandwick Manse.
		Stornoway.
		Dunrobin.
1. SCOTLAND, E.		Culloden.
		Aberdeen.
		Perth.
		Leith.
2. ENGLAND, N.E.		Bywell.
		N. Shields.
		Hull.
3. ENGLAND, E.		Royston.
		Holkham.
		Norwich.
		Wisbeach.
		Somerleyton.
4. MIDLAND COUNTIES		Derby.
		Nottingham.
		Cardington.
		Oxford.
5. ENGLAND, S.		Marlborough.
		Greenwich.
		Streatley.
		London (Camden Town).
		Weybridge.
		Strathfield Turgiss.
		Osborne.
		Bournemouth.
		Worthing.
6. SCOTLAND, W.		Greenock.
		Cockermouth.
		Silloth.
		Carlisle.
7. ENGLAND, N.W., and N. WALES		Stonyhurst.
		Bradford.
		Leeds.
		Eccles.
		Liverpool.
		Llandudno.
8. ENGLAND, S.W., and S. WALES		Gloucester.
		Taunton.
		Barnstaple.
		Truro.
		Helston.
9. IRELAND, N.	1866 to 1873.	Belfast.
		Milltown (Banbridge).
		Armagh.†
		Athlone.*
	1874 to 1877.	Moville.
		Milltown.
		Armagh.
		Donaghadee.
10. IRELAND, S.	1866 to 1873.	Dublin.*
		Curragh Camp.
		Buttevant.*
		Cork.
		Valencia.†
	1874 to 1877.	Kingstown.
		Parsonstown.
		Cork.
		Roche's Point.
		Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General, by the Scottish Meteorological Society (in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1897 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867. † Did not commence till January 1869.

By Order,

ROBERT H. SCOTT, Secretary.

WEEKLY WEATHER REPORT, 1897.

VOL. XIV. APPENDIX II.] [*Price* 1*s*.
Third Series.

TABLE I.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF RAINY DAYS IN EACH DISTRICT DURING THE YEAR 1897.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat Producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.
	Numbers of Days with Rain.																													
1897.																														
Jan. 3-9	3	3	4	4	5	5	5	5	6	6	5	5	5	5	5	5	6	6	7	7	6	6	6	6	6	6	6	6	6	6
10-16	4	7	3	7	6	11	6	11	4	10	4	9	5	10	1	6	1	7	1	8	2	8	2	8	2	8	4	10	3	9
17-23	5	12	4	11	7	18	5	16	3	13	3	12	4	14	1	7	3	10	2	10	2	10	2	10	2	10	5	15	3	12
24-30	6	18	4	15	4	22	5	21	4	17	4	16	4	18	5	12	6	16	6	16	6	16	4	14	5	15	7	22	5	17
Jan. 31-Feb. 6	2	20	3	18	6	28	7	28	6	23	7	23	6	24	3	15	6	22	7	23	6	22	6	20	5	20	7	29	5	22
Feb. 7-13	5	25	3	21	2	30	4	32	4	27	5	28	4	28	5	20	5	27	6	29	4	26	6	26	5	25	7	36	4	26
14-20	5	30	3	24	3	33	4	36	3	30	3	31	3	31	4	24	4	31	3	32	4	30	3	29	4	29	3	39	4	30
21-27	6	36	5	29	2	35	1	37	2	32	1	32	2	33	6	30	4	35	4	36	6	36	4	33	5	34	3	42	4	34
Feb. 28-Mar. 6	6	42	6	35	5	40	5	42	6	38	6	38	6	39	5	35	6	41	6	42	6	42	6	39	6	40	7	49	6	40
Mar. 7-13	5	47	5	40	4	44	4	46	3	41	4	42	4	43	6	41	6	47	6	48	6	48	6	45	6	46	6	55	5	45
14-20	7	54	7	47	6	50	5	51	5	46	5	47	5	48	7	48	6	53	6	54	7	55	6	51	6	52	6	61	6	51
21-27	7	61	6	53	4	54	2	53	4	50	3	50	4	52	7	55	5	58	5	59	7	62	6	57	6	58	4	65	5	56
28-April 3	4	65	4	57	5	59	4	57	4	54	4	54	4	56	3	58	3	61	6	65	4	66	4	61	4	62	5	70	4	60
April 4-10	2	67	3	60	2	61	3	60	3	57	4	58	3	59	3	61	3	64	5	70	5	71	6	67	4	66	5	75	4	64
11-17	6	73	6	66	5	66	4	64	7	64	5	63	5	64	7	68	7	71	7	77	7	78	7	74	7	73	7	82	6	70
18-24	2	75	2	68	3	69	4	68	3	67	2	65	3	67	2	70	3	74	3	80	3	81	3	77	3	76	4	86	3	73
25-May 1	4	79	3	71	4	73	3	71	3	70	2	67	3	70	4	74	3	77	4	84	4	85	4	81	4	80	4	90	3	76
May 2-8	7	86	6	77	2	75	4	75	3	73	3	70	4	74	6	80	7	84	5	89	7	92	5	86	6	86	4	94	5	81
9-15	5	91	3	80	3	78	3	78	2	75	1	71	2	76	3	83	2	86	1	90	3	95	1	87	2	88	0	94	2	83
16-22	0	91	0	80	0	78	0	78	0	75	1	72	0	76	0	83	0	86	1	91	0	95	0	87	0	88	3	97	0	83
23-29	5	96	5	85	5	83	5	83	4	79	5	77	5	81	4	87	3	89	5	96	4	99	5	92	4	92	5	102	5	88
May 30-June 5	2	98	3	88	3	86	2	85	3	82	3	80	3	84	4	91	4	93	3	99	3	102	3	95	3	95	4	106	3	91
June 6-12	4	102	4	92	2	88	3	88	3	85	2	82	3	87	4	95	4	97	2	101	5	107	5	100	4	99	2	108	4	95
13-19	5	107	6	98	5	93	4	92	5	90	4	86	5	92	7	102	6	103	4	105	6	113	6	106	6	105	4	112	6	101
20-26	4	111	3	101	2	95	2	94	1	91	1	87	2	94	5	107	2	105	2	107	5	118	4	110	4	109	3	115	3	104
27-July 3	3	114	3	104	3	98	2	96	3	94	2	89	2	96	5	112	3	108	2	109	3	121	4	114	3	112	4	119	2	106
July 4-10	5	119	4	108	2	100	2	98	2	96	1	90	2	98	5	117	4	112	2	111	5	126	3	117	4	116	3	122	3	109
11-17	0	119	0	108	0	100	0	98	1	97	0	90	0	98	0	117	0	112	0	111	1	127	2	119	1	117	1	123	1	110
18-24	2	121	4	112	2	102	3	101	3	100	2	92	3	101	4	121	2	114	5	116	3	130	4	123	3	120	3	126	3	113
25-31	5	126	3	115	2	104	2	103	2	102	2	94	2	103	4	125	3	117	3	119	4	134	3	126	3	123	2	128	2	115
Aug. 1-7	4	130	4	119	2	106	2	105	2	104	2	96	2	105	3	128	3	120	3	122	3	137	3	129	3	126	3	131	3	118
8-14	5	135	6	125	4	110	3	108	4	108	3	99	4	109	5	133	5	125	5	127	5	142	6	135	5	171	5	136	5	123
15-21	6	141	5	130	5	115	5	113	6	114	6	105	5	114	7	140	6	131	7	134	7	149	7	142	7	138	7	143	6	129
22-28	4	145	3	133	5	120	5	118	5	119	5	110	5	119	5	145	5	136	6	140	6	155	6	148	6	144	6	149	5	134
Aug. 29-Sept. 4	6	151	6	139	7	127	5	123	6	125	6	116	6	125	7	152	6	142	7	147	7	162	7	155	7	151	6	155	7	141
Sept. 5-11	4	155	4	143	3	130	4	127	3	128	4	120	4	129	2	154	2	144	4	151	3	165	4	159	3	154	5	160	3	144
12-18	6	161	5	148	3	133	3	130	2	130	3	123	3	132	4	158	3	147	2	153	4	169	2	161	3	157	2	162	3	147
19-25	6	167	5	153	4	137	3	133	3	133	4	127	4	136	5	163	4	151	5	158	6	175	4	165	5	162	6	168	5	152
26-Oct. 2	5	172	4	157	3	140	4	137	3	136	4	131	3	139	4	167	4	155	4	162	5	180	5	170	4	166	4	172	3	155
Oct. 3-9	5	177	3	160	3	143	2	139	1	137	1	132	2	141	4	171	3	158	1	163	4	184	2	172	3	169	1	173	3	158
10-16	7	184	5	165	4	147	3	142	4	141	3	135	3	144	6	177	6	164	6	169	6	190	6	178	6	175	5	178	4	162
17-23	3	187	2	167	2	149	2	144	2	143	1	136	2	146	2	179	1	165	2	171	2	192	1	179	1	176	2	180	1	163
24-30	2	189	1	168	0	149	1	145	1	144	1	137	1	147	2	181	1	166	1	172	2	194	3	182	2	178	3	183	2	165
Oct. 31-Nov. 6	0	189	2	170	2	151	1	146	0	144	0	137	1	148	0	181	0	166	0	172	0	194	1	183	0	178	1	184	1	166
Nov. 7-13	5	194	5	175	4	155	3	149	4	148	3	140	4	152	6	187	4	170	5	177	6	200	6	189	5	183	4	188	4	170
14-20	5	199	3	178	4	159	3	152	4	152	3	143	3	155	5	192	3	173	3	180	4	204	3	192	4	187	4	192	4	174
21-27	6	205	4	182	5	164	3	155	3	155	4	147	4	159	5	197	2	175	3	183	4	208	3	195	4	191	2	194	4	178
Nov. 28-Dec. 4	5	210	5	187	6	170	5	160	5	160	4	151	5	164	5	202	6	181	4	187	5	213	5	200	5	196	5	199	5	183
Dec. 5-11	7	217	6	193	5	175	4	164	6	166	6	157	5	169	7	209	6	187	7	194	7	220	6	206	7	203	7	206	6	189
12-18	6	223	4	197	4	179	4	168	6	172	5	162	5	174	5	214	6	193	5	199	6	226	5	211	5	208	5	211	5	194
19-25	1	224	1	198	0	179	0	168	0	172	0	162	0	174	1	215	0	193	0	199	1	227	1	212	0	208	0	211	1	195
Dec. 26-Jan. 1/98	7	231	6	204	4	183	6	174	6	178	6	168	6	180	7	222	6	199	7	206	7	234	7	219	7	215	7	218	6	201

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TABLE II.—SHOWING THE WEEKLY AND PROGRESSIVE AMOUNTS OF RAINFALL IN EACH DISTRICT DURING THE YEAR 1897.

DATE. — LIMITS OF WEEKS.	0. SCOTLAND, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
			1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DISTRICTS.		6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZING, &C. DISTRICTS.					
	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.
	RAINFALL IN INCHES.																													
1897.																														
Jan. 3-9	0·36	0·36	0·54	0·54	0·72	0·72	0·99	0·99	1·31	1·31	1·25	1·25	0·96	0·96	1·04	1·04	0·56	0·56	1·26	1·46	0·65	0 65	1·62	1·62	1·07	1·07	1·51	1·51	1·02	1·02
10-16	0·27	0·63	0·09	0·63	0·54	1·26	0·37	1·36	0·21	1·52	0·27	1·52	0·30	1·26	0·06	1·10	0·03	0·59	0·03	1·49	0·06	0·71	0·22	1·84	0·08	1·15	0·17	1·68	0·19	1·21
17-23	0·35	0·98	0·41	1·04	0·45	1·71	0·35	1·71	0·13	1·65	0·13	1·65	0·30	1·56	0·07	1·17	0·08	0·67	0·19	1·58	0·10	0·81	0·14	1·98	0·09	1·24	0·26	1·94	0·19	1·40
24-30	0·91	1·89	0·61	1·65	0·27	1·98	0·21	1·92	0·33	1·98	0·25	1·90	0·33	1·89	0·72	1·89	0·70	1·37	0 63	2·21	0·91	1·72	0·49	2·47	0·69	1·93	0·78	2·72	0·51	1·91
Jan. 31-Feb. 6	0·21	2·10	0·19	1·84	1·08	3·06	1·66	3·58	1·93	3·91	2·20	4·10	1·41	3·30	0·54	2·43	1 21	2·58	2·47	4·68	0·73	2·45	1·31	3·78	1·25	3·18	2·18	4·90	1·33	3·24
Feb. 7-13	0·58	2·68	0·14	1·98	0·15	3·21	0·16	3·74	0·27	4·18	0·52	4·62	0·25	3·55	0·55	2·98	0·46	3·04	1·33	6 01	0·61	3·06	0·77	4·55	0·75	3·93	0·76	5·66	0·50	3·74
14-20	0·71	3·39	0·30	2·28	0·31	3·52	0·36	4·10	0·43	4·61	0·25	4·87	0·33	3·88	0·52	3·50	0·50	3·54	0·85	6·86	0·31	3·37	0·52	5·07	0·54	4·47	0·35	6·01	0·44	4·18
21-27	2·26	5·65	0·64	2·92	0·07	3·59	0·02	4·12	0·05	4·66	0·03	4·90	0·16	4·04	1·55	5·05	0·47	4 01	0·17	7·03	0·96	4·33	0·51	5·58	0·73	5·20	0·06	6·07	0·44	4·62
Feb. 28-Mar. 6	0·82	6·47	0·62	3·54	0·63	4·22	0·99	5·11	1·13	5·79	1·67	6·57	1·01	5·05	1·29	6·34	1·12	5·13	1 88	8·91	1·50	5·83	1·76	7·34	1·51	6·71	1·92	7·99	1·20	5·88
Mar. 7-13	0·81	7·28	0·84	4·38	0·40	4·62	0·47	5·58	0·43	6·22	0·79	7·36	0·58	5·63	0·99	7·33	0·90	6·03	1·06	9·97	1·40	7·23	1·60	8·94	1·19	7·90	1·08	9·07	0·88	6·76
14-20	1·38	8·66	1·13	5·51	0·83	5·45	0·79	6·37	1·06	7·28	0·93	8·29	0·95	6·58	1·12	8·45	0·86	6·69	1·20	11·17	0·89	8·12	0·92	9·86	0·96	8·86	0·72	9·79	0·95	7·71
21-27	2·02	10·68	0·94	6·45	0·33	5·78	0·18	6·55	0·31	7·59	0·13	8·42	0·38	6·96	2·31	10·76	0·70	7·39	0·64	11·81	1·13	9·25	0·99	10·85	1·15	10·01	0·14	9 93	0·77	8·48
28-Apr 3	0·33	11·01	0·45	6·90	0·63	6·41	0·33	6·88	0·36	7·95	0·79	9·21	0·51	7·47	0·25	11·01	0·49	7·88	1·21	13·02	0·32	9·57	0·92	11·77	0·64	10·65	1·66	11·59	0·58	9·06
April 4-10	0·18	11·19	0·18	7·08	0·21	6·62	0·30	7·18	0·42	8·37	0·44	9·65	0·31	7·78	0·19	11·20	0·43	8·31	1·12	14·14	0·72	10·29	1·34	13·11	0·76	11·41	0·98	12·57	0·54	9·60
11-17	1·60	12·79	1·25	8·33	0·69	7·31	0·54	7·72	1·06	9·43	0·66	10·31	0·84	8·62	1·80	13·00	1·50	9·81	1·67	15·81	1·38	11 67	1·78	14·89	1·63	13·04	0·78	13·35	1·23	10·83
18-24	0·17	12·96	0·08	8·41	0·13	7·44	0·26	7·98	0·34	9·77	0·26	10·57	0·22	8·84	0·23	13·23	0·53	10·34	0·40	16·21	0·58	12·25	0·53	15·42	0·45	13·49	0·35	13·70	0·33	11·16
25-May 1	0·57	13·53	0·21	8·62	0·35	7·79	0·52	8·50	0·27	10·04	0·36	10·93	0·34	9·18	0·54	13·77	0·33	10·67	0·56	16·77	0·51	12·76	0 29	15·71	0·45	13·94	0 33	14·03	0·40	11·56
May 2-8	1·81	15·34	0·45	9·07	0·12	7·91	0·16	8·66	0·12	10·16	0·18	11·11	0·20	9·38	0 92	14·69	0·65	11·32	0·49	17·26	0·94	13·70	0·46	16·17	0·69	14·63	0·36	14·39	0·45	12·01
9-15	0·44	15·78	0·27	9·34	0·22	8·13	0·28	8·94	0·13	10·29	0·02	11·13	0·19	9·57	0·19	14·88	0·08	11·40	0·01	17·27	0·08	13·78	0·01	16·18	0·08	14·71	0·00	14·39	0·13	12·14
16-22	0·61	16·39	0·49	9·83	0·45	8·58	0·45	9·39	0·51	10·80	0·42	11·55	0·46	10·03	0·00	14·88	0·00	11·40	0·01	17·28	0·00	13·78	0 00	16·18	0·00	14·71	0·17	14·56	0·23	12·37
23-29	0·50	16·89	0·91	10·74	0·64	9·22	0·33	9·72	0·50	11·30	0·35	11·90	0·55	10·58	0·93	15·81	0·64	12·04	0·88	18·16	0·81	14·59	0·89	17·07	0·83	15·54	0·70	15·26	0·69	13·06
May 30-June 5	0·13	17·02	0·29	11·03	0·41	9·63	0·42	10·14	0·72	12·02	0·80	12·70	0·53	11·11	0·74	16·55	0·94	12·98	0·48	18·64	0·65	15·24	0·56	17·63	0·67	16·21	0·52	15·78	0·60	13·66
June 6-12	0·51	17·53	0·57	11·60	0·13	9·76	0·90	11·04	0·97	12·99	0·86	13·56	0·69	11·80	0·39	16·94	0·46	13·44	0·74	19·38	0·80	16·04	1·06	18·69	0·69	16·90	0·29	16·07	0·69	14·35
13-19	0·89	18·42	2·56	14·16	1·39	11·15	0·89	11·93	0·84	13·83	0·45	14·01	1·22	13·02	2·84	19·78	1·73	15·17	1·09	20·47	2·58	18·62	1·41	20·10	1·93	18·83	0·98	17·05	1·58	15·93
20-26	0·58	19·00	0·56	14·72	0·40	11·55	0·17	12·10	0·12	13·95	0·29	14·30	0·31	13·33	0·64	20·42	0·20	15·37	0·25	20·72	1·13	19·75	1·03	21·13	0·65	19·48	0·42	17·47	0·48	16·41
27-July 3	0·67	19·67	0·17	14·89	0·28	11·83	0·12	12·22	0·66	14·61	0·33	14·63	0·31	13·64	0·45	20·87	0·54	15·91	0·33	21·05	0·43	20·18	0·60	21·73	0·47	19·95	0·45	17 92	0·39	16·80
July 4-10	1·43	21·10	0·27	15·16	0 16	11·99	0·04	12·26	0·08	14·69	0·12	14·75	0·11	13·78	1·22	22·09	0·64	16·55	0·25	21·30	0·85	21·03	0·37	22·10	0·66	20·61	0·12	18·04	0·40	17·20
11-17	0·00	21·10	0·00	15·16	0·00	11·99	0·00	12·26	0·01	14·70	0·00	14·75	0·00	13·78	0 00	22·09	0·00	16·55	0·02	21·32	0·03	21·06	0·15	22·25	0·04	20·65	0·04	18·08	0·02	17·22
18-24	0·64	21·74	0·90	16·06	0·86	12·85	0·23	12·49	0·79	15·49	0·44	15·19	0·64	14·42	0·57	22·66	0·24	16·79	1·06	22·38	1·14	22·20	1·05	23·30	0·81	21·46	0·21	18·29	0·73	17·95
25-31	0·71	22·45	0·33	16·39	0·23	13·08	0·23	12·72	0·24	15·73	0·22	15·41	0·25	14·67	0·58	23·24	0·51	17·30	0·25	22·63	0·59	22·79	0·50	23·80	0·49	21·95	0·15	18·44	0·37	18·32
Aug. 1-7	0·42	22·87	1·04	17·43	0·38	13·46	0·34	13·06	0·65	16·38	0·26	15·67	0·53	15·20	0·37	23·61	0·49	17·79	0·98	23·62	0·44	23·23	0·78	24·58	0·61	22·56	0·59	19 03	0·57	18·89
8-14	0·85	23·72	1·42	18·85	0·49	13·95	0·64	13·70	0·76	17·14	0·42	16·09	0·75	15·95	1·41	25·02	1·02	18·81	0 71	24·33	1·59	24·82	1·47	26·05	1·24	23·80	0·50	19·53	1·00	19·89
15-21	1·56	25·28	0·85	19·70	0·63	14·58	0·68	14·38	0·61	17·75	0·88	16·97	0·73	16·68	1·64	26·66	1·85	20·66	1·17	25·50	1·19	26·01	1·63	27·68	1·50	25·30	1·44	20·97	1·11	21·00
22-28	0·32	25·60	0·50	20·20	1·12	15·70	0·78	15·16	0·65	18·40	1·07	18·04	0·82	17·50	0·59	27·25	0·47	21·13	1·33	26·83	0·94	26·95	0·98	28·66	0·66	26·16	1·45	22·42	0·84	21·84
Aug. 29-Sept. 4	1·26	26·86	1·13	21·33	1·99	17·69	0·88	16·04	1·74	20·14	1·12	19·16	1·37	18·87	2·92	30·17	2·47	23·60	2·47	29·30	2·13	29·08	2·01	30 67	2·40	28·56	1·15	23·57	1·89	23·73
Sept. 6-11	0·32	27·18	0·19	21·52	0·36	18·05	0·76	16·80	0·53	20·67	0·82	19·98	0·53	19·40	0·41	30 58	0 32	23·92	1·55	30·85	0·30	29·38	0·93	31·60	0·70	29·26	1·62	25·19	0 62	24·35
12-18	1·13	28·31	0·33	21·85	0·20	18·25	0·53	17·33	0·14	20·81	0·40	20·38	0·32	19·72	0·50	31·08	0·39	24·31	0·39	31·24	0·31	29·69	0·13	31·73	0 34	29·60	0·27	25·46	0·33	24·68
19-25	2·63	30·94	0·38	22·23	0·31	18·56	0·39	17·72	0·26	21·07	0·16	20·54	0·30	20·02	1·43	32·51	0·61	24·92	0·43	31·67	0·49	30·18	0·43	32·16	0·68	30·28	0·60	26·06	0·49	25·17
26-Oct. 2	0·95	31·89	0·31	22·54	0·70	19·26	1·35	19·07	0·95	22·02	0·66	21·20	0·80	20·82	0·57	33 08	0·97	25·89	1·09	32·76	0·46	30·64	0 55	32·71	0·73	31 01	0 95	27·01	0·76	25·93
Oct. 3-9	1·13	33·02	0·13	22·67	0·07	19·33	0·06	19·13	0·03	22·05	0·04	21·24	0·07	20·89	0·37	33·45	0·16	26·05	0·04	32·80	0·19	30·83	0·18	32·89	0·19	31·20	0·05	27·06	0·13	26·06
10-16	1·56	34·58	1·46	24·13	1·05	20·38	0·15	19·28	0·73	22·78	0·30	21·54	0·74	21·63	1·66	35·11	1·32	27·37	0·95	33·75	1·81	32·64	2·92	35·81	1·73	32·93	1·11	28·17	1·23	27·29
17-23	0·66	35·24	0·33	24·46	0·04	20·42	0·38	19·66	0·33	23·11	0·10	21·64	0·23	21·86	0·41	35·52	0·11	27·48	0·39	34·14	0·28	32·92	0·21	36·02	0·28	33·21	0·17	28·34	0·26	27·55
24-30	0·13	35·37	0·07	24·53	0·02	20·44	0·05	19·71	0·04	23·15	0·04	21·68	0·04	21·90	0·08	35·60	0·02	27·50	0·05	34·19	0·31	33·23	0·44	36·46	0·18	33·39	0·43	28·77	0·11	27·66
Oct. 31-Nov. 6	0·02	35·39	0·06	24·59	0·05	20·49	0·05	19·76	0·01	23·16	0·02	21·70	0·04	21·94	0·00	35·60	0·00	27 50	0·01	34·20	0·00	33·23	0·03	36·49	0·01	33·40	0·02	28 79	0·02	27·68
Nov. 7-13	1·34	36·73	0·63	25·27	0·27	20·76	0·17	19·93	0·38	23·54	0·22	21·92	0·34	22·28	2·19	37·79	1·13	28·63	1·09	35·29	0·95	34·18	2·46	38·95	1·56	34·96	0·76	29 55	0·95	28·63
14-20	1·13	37·86	0·61	25·88	0·77	21·53	0·27	20·20	0·44	23·98	0·33	22·25	0·48	22·76	1·16	38·95	1·09	29·72	0·36	35 65	0·34	34·52	1·34	40·29	0·86	35·82	0·20	29·75	0·67	29·30
21-27	1·45	39·31	0·24	26·12	0·32	21·85	0·30	20·50	0·37	24·35	0·44	22·69	0·34	23·10	0·81	39·76	0·81	30·53	0·96	36·61	1·02	35·54	0 83	41·12	0·89	36·71	0·19	29·94	0·62	29·92
Nov. 28-Dec. 4	1·18	40·49	0·85	26·97	1·01	22 86	0·68	21·18	0·82	25·17	0·55	23·24	0·78	23·88	1·01	40·77	2·86	33·39	0·30	37·41	1·11	36·65	1·11	42·23	1 38	38·09	1·17	31·11	1·08	31·00
Dec. 5-11	2·64	43·13	1·33	28·30	0·83	23·69	0·76	21·94	0·97	26·14	1·25	24·49	1·03	24·91	2·10	42·87	1·60	34·99	2·61	40·02	1·52	38·17	1·46	43·69	1·86	39·95	2·05	33·16	1·45	32·45
12-18	1·00	44·13	0·55	28·85	0·54	24·23	0·55	22·49	1·10	27·24	1·05	25·54	0·76	25·67	1·14	44·01	1·12	36·11	1·76	41·78	0·85	39·02	1·29	44·98	1·23	41·18	1·16	34·32	0·99	33·44
19-25	0·11	44·24	0·03	28·88	0·00	24·23	0·02	22·51	0·00	27·24	0·00	25·54	0·01	25·68	0·10	44·11	0·00	36·11	0·00	41·78	0·01	39·03	0·13	45·11	0·05	41·23	0·01	34·33	0·03	33·47
Dec. 26-Jan. 1/98	2·39	46·63	1·35	30·23	0·25	24·48	0·49	23·00	0·78	28·02	1·12	26·66	0·80	26·48	3·32	47·43	0·96	37 07	2·01	43·79	2·01	41·04	2·63	47·74	2·18	43·41	1·57	35·90	1·49	34 96

TABLE III.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT ABOVE 42° F. IN EACH DISTRICT DURING THE YEAR 1897.

DATE. — LIMITS OF WEEKS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat Producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.
	Day-Degrees above 42° Fahrenheit.																													
1897.																														
Jan. 3-9	3	3	0	0	0	0	0	0	0	0	8	8	2	2	3	3	1	1	17	17	7	7	20	20	10	10	29	29	6	6
10-16	0	3	0	0	0	0	0	0	0	0	0	8	0	2	0	3	0	1	0	17	0	7	2	22	0	10	15	44	0	6
17-23	0	3	0	0	0	0	0	0	0	0	0	8	0	2	0	3	0	1	0	17	0	7	0	22	0	10	0	44	0	6
24-30	0	3	0	0	0	0	0	0	0	0	0	8	0	2	0	3	0	1	0	17	0	7	3	25	1	11	8	52	1	7
Jan. 31-Feb. 6	0	3	0	0	0	0	0	0	0	0	4	12	1	3	0	3	0	1	16	33	0	7	22	47	8	19	38	90	5	12
Feb. 7-13	0	3	1	1	4	4	8	8	12	12	18	30	8	11	4	7	8	9	23	56	13	20	29	76	15	34	40	130	12	24
14-20	20	23	25	26	26	30	28	36	31	43	25	55	27	38	25	32	24	33	27	83	30	50	36	112	28	62	28	158	27	51
21-27	27	50	39	65	41	71	37	73	39	82	38	93	39	77	28	60	34	67	37	120	34	84	50	162	37	99	48	206	38	89
Feb. 28-Mar. 6	2	52	1	66	7	78	13	86	12	94	16	109	10	87	6	66	10	77	14	134	8	92	14	176	10	109	24	230	10	99
Mar. 7-13	7	59	6	72	10	88	14	100	14	108	16	125	12	99	8	74	11	88	23	157	11	103	26	202	16	125	27	257	14	113
14-20	6	65	9	81	23	111	32	132	33	141	33	158	26	125	18	92	25	113	32	189	24	127	33	235	27	152	46	303	26	139
21-27	26	91	38	119	55	166	64	196	61	205	60	218	56	181	39	131	54	167	53	242	50	177	60	295	51	203	64	367	54	193
28-April 3	0	91	0	119	3	169	16	212	13	218	28	246	12	193	4	135	6	173	27	269	8	185	16	311	12	215	38	405	12	205
April 4-10	14	105	14	133	11	180	17	229	17	235	27	273	17	210	14	149	15	188	27	296	17	202	31	342	21	236	33	438	19	224
11-17	25	130	30	163	32	212	42	271	38	273	36	309	36	246	26	175	33	221	32	328	29	231	36	378	31	267	50	488	34	258
18-24	34	164	32	195	25	237	33	304	35	308	37	346	33	279	35	210	30	251	35	363	35	266	39	417	35	302	54	542	34	292
25-May 1	32	196	39	234	40	277	58	362	56	364	64	410	51	330	41	251	45	296	60	423	37	303	43	460	45	347	66	608	48	340
May 2-8	18	214	38	272	42	319	51	413	47	411	47	457	45	375	29	280	35	331	41	464	30	333	42	502	35	382	53	661	40	380
9-15	24	238	37	309	35	354	42	455	42	453	46	503	41	416	36	316	34	365	41	505	35	368	43	545	38	420	50	711	40	420
16-22	52	290	54	363	36	390	62	517	70	523	89	592	62	478	74	390	70	435	99	604	76	444	90	635	82	502	78	785	72	492
23-29	43	333	44	407	42	432	69	586	67	590	74	666	59	537	55	445	57	492	68	672	61	505	63	698	61	563	79	868	60	552
May 30-June 5	75	408	88	495	83	515	113	699	107	697	116	782	101	638	96	541	101	593	104	776	92	597	95	793	98	661	111	979	100	652
June 6-12	55	463	67	562	83	598	98	797	106	803	116	898	94	732	83	624	95	688	116	892	97	694	118	911	102	763	127	1106	98	750
13-19	55	518	61	623	90	688	108	905	99	902	116	1014	95	827	68	692	90	778	103	995	63	757	81	992	81	844	113	1219	88	838
20-26	76	594	95	718	109	797	132	1037	131	1033	140	1154	121	948	100	792	120	898	134	1129	97	854	120	1112	114	958	137	1356	117	955
27-July 3	101	695	106	824	116	913	143	1180	144	1177	148	1302	132	1080	121	913	128	1026	141	1270	110	964	133	1245	126	1084	136	1492	129	1084
July 4-10	67	762	81	905	99	1012	115	1295	106	1283	126	1428	105	1185	83	996	99	1125	115	1385	88	1052	102	1347	98	1182	123	1615	102	1186
11-17	112	874	106	1011	100	1112	123	1418	132	1415	152	1580	123	1308	125	1121	137	1262	153	1538	134	1186	141	1488	138	1320	158	1773	130	1316
18-24	118	992	123	1134	119	1231	143	1561	145	1560	155	1735	137	1445	125	1246	139	1401	143	1681	131	1317	141	1629	136	1456	157	1930	136	1452
25-31	109	1101	127	1261	139	1370	148	1709	147	1707	155	1890	143	1588	116	1372	137	1538	144	1825	130	1447	135	1764	134	1590	147	2077	139	1591
Aug. 1-7	137	1238	146	1407	150	1520	167	1876	167	1874	172	2062	160	1748	157	1529	171	1709	160	1985	146	1593	153	1917	157	1747	162	2239	150	1750
8-14	106	1344	116	1523	132	1652	143	2019	128	2002	151	2213	134	1882	116	1645	124	1833	133	2118	106	1699	122	2039	120	1867	148	2387	127	1877
15-21	95	1439	98	1621	123	1775	136	2155	126	2128	137	2350	124	2006	104	1749	120	1953	124	2242	102	1801	109	2148	112	1979	137	2524	118	1995
22-28	97	1536	102	1723	116	1891	118	2273	111	2239	128	2478	115	2121	106	1855	112	2065	109	2351	98	1899	107	2255	107	2086	132	2656	111	2106
Aug. 29-Sept. 4	74	1610	74	1797	94	1985	101	2374	88	2327	111	2589	94	2215	81	1936	90	2155	95	2446	78	1977	89	2344	87	2173	118	2774	91	2197
Sept. 5-11	50	1660	54	1851	57	2042	78	2452	71	2398	92	2681	70	2285	54	1990	66	2221	81	2527	64	2041	82	2426	69	2242	111	2885	70	2267
12-18	72	1732	81	1932	83	2125	78	2530	73	2477	99	2780	84	2369	82	2072	87	2308	93	2620	82	2123	83	2509	85	2327	111	2996	84	2351
19-25	52	1784	62	1994	73	2198	83	2613	78	2555	93	2873	78	2447	67	2139	81	2389	84	2704	74	2197	85	2594	78	2405	104	3100	78	2429
26-Oct. 2	62	1846	65	2059	76	2274	94	2707	80	2635	107	2980	84	2531	74	2213	82	2471	95	2799	78	2275	90	2684	84	2489	118	3218	84	2513
Oct 3-9	47	1893	50	2109	52	2326	48	2755	48	2683	57	3037	51	2582	56	2269	60	2531	57	2856	55	2330	66	2750	59	2548	78	3296	55	2568
10-16	25	1918	34	2143	41	2367	52	2807	47	2730	74	3111	50	2632	34	2303	51	2582	71	2927	36	2366	61	2811	50	2598	97	3393	50	2618
17-23	60	1978	60	2203	77	2444	69	2876	68	2798	95	3206	74	2706	75	2378	75	2657	81	3008	70	2436	75	2886	75	2673	106	3499	75	2693
24-30	50	2028	42	2245	46	2490	55	2931	47	2845	78	3284	53	2759	57	2435	62	2719	85	3093	70	2506	85	2971	72	2745	100	3599	62	2755
Oct. 31-Nov. 6	31	2059	25	2270	36	2526	29	2960	25	2870	36	3320	30	2789	36	2471	39	2758	41	3134	46	2552	53	3024	43	2788	69	3668	37	2792
Nov. 7-13	46	2105	48	2318	46	2572	39	2999	43	2913	55	3375	46	2835	61	2532	62	2820	70	3204	62	2614	78	3102	67	2855	89	3757	56	2848
14-20	25	2130	34	2352	36	2608	43	3042	38	2951	48	3423	40	2875	32	2564	34	2854	43	3247	31	2645	38	3140	35	2890	79	3836	38	2886
21-27	18	2148	23	2375	27	2635	15	3057	16	2967	26	3449	22	2897	32	2596	28	2882	30	3277	27	2672	34	3174	30	2920	48	3884	26	2912
Nov. 28-Dec. 4	0	2148	0	2375	5	2640	5	3062	2	2969	10	3459	4	2901	5	2601	6	2888	14	3291	10	2682	27	3201	12	2932	30	3914	8	2920
Dec. 5-11	4	2152	4	2379	9	2649	10	3072	12	2981	26	3485	12	2913	20	2621	24	2912	30	3321	12	2694	32	3233	24	2956	43	3957	18	2938
12-18	12	2164	12	2391	27	2676	31	3103	33	3014	37	3522	28	2941	26	2647	32	2944	41	3362	26	2720	33	3269	32	2988	62	4019	30	2968
19-25	0	2164	0	2391	0	2676	0	3103	0	3014	4	3526	1	2942	0	2647	0	2944	8	3370	11	2731	26	3295	9	2997	21	4040	5	2973
Dec. 26-Jan. 1/98	21	2185	23	2414	30	2706	26	3129	30	3044	28	3554	28	2970	27	2674	35	2979	32	3402	24	2755	33	3328	30	3027	47	4087	29	3002

TABLE IV.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES OF ACCUMULATED HEAT BELOW 42° F. IN EACH DISTRICT DURING THE YEAR 1897.

DATE. — LIMITS OF WEEKS.	0. Scotland, N.		Principal Wheat-producing Districts.												Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
			1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat Producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.
	Day-Degrees below 42° Fahrenheit.																													
1897.																														
Jan. 3-9	21	21	27	27	34	34	33	33	37	37	19	19	30	30	18	18	23	23	7	7	23	23	11	11	16	16	0	0	23	23
10-16	61	82	58	85	35	69	36	69	46	83	21	40	39	69	46	64	36	59	21	28	43	66	33	44	36	52	4	4	58	61
17-23	63	145	72	157	55	124	74	143	76	159	74	114	70	139	61	125	58	117	63	96	57	123	50	94	59	111	29	33	64	125
24-30	69	214	78	235	73	197	76	219	71	230	62	176	72	211	60	185	56	173	43	139	48	171	45	139	50	161	26	59	61	186
Jan. 31-Feb. 6	83	297	85	320	52	249	47	266	48	278	20	196	50	261	49	234	40	213	8	147	25	196	13	152	27	188	0	59	38	224
Feb. 7-13	42	339	43	363	35	284	32	298	29	307	11	207	30	291	29	263	21	234	1	148	21	217	1	153	15	203	0	59	23	247
14-20	9	348	12	375	10	294	15	313	11	318	11	218	12	303	3	266	7	241	4	152	5	222	3	156	4	207	1	60	8	255
21-27	8	356	7	382	0	294	1	314	0	318	0	218	2	305	0	266	0	241	0	152	1	223	0	156	0	207	0	60	1	256
Feb. 28-Mar. 6	32	388	38	420	30	324	29	343	32	350	23	241	30	335	29	295	25	266	24	176	32	255	27	183	27	234	7	67	29	285
Mar. 7-13	23	411	27	447	30	354	35	378	34	384	23	264	30	365	20	315	23	289	13	189	26	281	16	199	19	253	1	68	24	309
14-20	22	433	25	472	11	365	8	386	10	394	1	265	11	376	10	325	7	296	3	192	13	294	5	204	8	261	0	68	10	319
21-27	4	437	3	475	0	365	0	386	0	394	0	265	1	377	0	325	0	296	0	192	0	294	0	204	0	261	0	68	0	319
28-April 3	55	492	54	529	35	400	32	418	32	426	12	277	33	410	40	365	26	322	14	206	37	331	27	231	29	290	0	68	31	350
April 4-10	34	526	40	569	30	430	32	450	32	458	12	289	29	439	28	393	25	347	10	216	27	358	10	241	20	310	0	68	25	375
11-17	16	542	15	584	10	440	12	462	9	467	0	289	9	448	9	402	7	354	0	216	12	370	1	242	6	316	0	68	7	382
18-24	16	558	18	602	10	450	8	470	10	477	1	290	10	458	14	416	6	360	3	219	11	381	0	242	7	323	0	68	9	391
25-May 1	14	572	17	619	3	453	4	474	3	480	0	290	5	463	7	423	2	362	0	219	9	390	0	242	3	326	0	68	4	395
May 2-8	23	595	15	634	5	458	6	480	6	486	1	291	6	469	7	430	1	363	0	219	9	399	0	242	3	329	0	68	5	400
9-15	14	609	14	648	11	469	13	493	15	501	6	297	12	481	9	439	4	367	4	223	4	403	0	242	4	333	0	68	8	408
16-22	6	615	9	657	2	471	0	493	3	504	0	297	3	484	3	442	0	367	0	223	0	403	0	242	1	334	0	68	2	410
23-29	0	615	4	661	0	471	0	493	0	504	0	297	1	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
May 30-June 5	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
June 6-12	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
13-19	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
20-26	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
27-July 3	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
July 4-10	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
11-17	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
18-24	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
25-31	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
Aug. 1-7	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
8-14	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
15-21	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
22-28	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
Aug. 29-Sept. 4	0	615	0	661	0	471	0	493	0	504	0	297	0	485	0	442	0	367	0	223	0	403	0	242	0	334	0	68	0	410
Sept. 5-11	7	622	9	670	0	471	0	493	0	504	0	297	2	487	3	445	0	367	0	223	0	403	0	242	1	335	0	68	1	411
12-18	0	622	0	670	0	471	0	493	0	504	0	297	0	487	0	445	0	367	0	223	0	403	0	242	0	335	0	68	0	411
19-25	0	622	0	670	0	471	0	493	0	504	0	297	0	487	0	445	0	367	0	223	0	403	0	242	0	335	0	68	0	411
26-Oct. 2	0	622	0	670	0	471	0	493	0	504	0	297	0	487	0	445	0	367	0	223	0	403	0	242	0	335	0	68	0	411
Oct. 3-9	0	622	2	672	0	471	4	497	10	514	0	297	3	490	0	445	0	367	0	223	0	403	0	242	0	335	0	68	2	413
10-16	14	636	15	687	6	477	0	497	0	514	0	297	4	494	6	451	0	367	0	223	1	404	0	242	1	336	0	68	2	415
17-23	0	636	0	687	0	477	0	497	0	514	0	297	0	494	0	451	0	367	0	223	0	404	0	242	0	336	0	68	0	415
24-30	3	639	9	696	0	477	6	503	4	518	0	297	4	498	0	451	0	367	0	223	0	404	0	242	0	336	0	68	2	417
Oct. 31-Nov. 6	13	652	7	703	0	477	6	509	4	522	0	297	4	502	0	451	0	367	0	223	0	404	0	242	0	336	0	68	2	419
Nov. 7-13	0	652	0	703	0	477	0	509	0	522	0	297	0	502	0	451	0	367	0	223	0	404	0	242	0	336	0	68	0	419
14-20	15	667	14	717	7	484	10	519	10	532	0	297	8	510	3	454	0	367	0	223	4	408	3	245	2	338	0	68	5	424
21-27	4	671	8	725	8	492	32	551	26	558	8	305	16	526	0	454	3	370	3	226	2	410	0	245	2	340	0	68	9	433
Nov. 28-Dec. 4	34	705	43	768	33	525	35	586	38	596	29	334	36	562	32	486	26	396	29	255	29	439	16	261	26	366	0	68	31	464
Dec. 5-11	28	733	35	803	26	551	34	620	31	627	14	348	28	590	13	499	10	406	7	262	27	466	11	272	14	380	0	68	21	485
12-18	26	759	32	835	13	564	13	633	12	639	1	349	14	604	8	507	6	412	0	262	13	479	9	281	7	387	0	68	11	496
19-25	62	821	70	905	42	606	46	679	54	693	26	375	48	652	37	544	32	444	20	282	22	501	0	281	22	409	4	72	35	531
Dec. 26-Jan. 1/98	10	831	14	919	14	620	11	690	15	708	2	377	11	663	3	547	6	450	1	283	8	509	1	282	4	413	0	72	7	538

TABLE V.—SHOWING THE WEEKLY AND PROGRESSIVE NUMBERS OF HOURS OF BRIGHT SUNSHINE IN EACH DISTRICT REGISTERED DURING THE YEAR 1897.

DATE. — LIMITS OF WEEKS.	0. SCOTLAND, N.		Principal Wheat-producing Districts. 1. SCOTLAND, E.		2. ENGLAND, N.E.		3. ENGLAND, E.		4. MIDLAND COUNTIES.		5. ENGLAND, S.		MEANS FOR WHEAT PRODUCING DISTRICTS.		Principal Grazing, &c. Districts. 6. SCOTLAND, W.		7. ENGLAND, N.W.		8. ENGLAND, S.W.		9. IRELAND, N.		10. IRELAND, S.		MEANS FOR GRAZING, &C. DISTRICTS.		CHANNEL ISLANDS.		MEANS FOR THE BRITISH ISLANDS GENERALLY.	
	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.
	NUMBERS OF HOURS OF BRIGHT SUNSHINE.																													
1897.																														
Jan. 3-9	5	5	3	3	1	1	3	3	2	2	5	5	3	3	3	3	1	1	5	5	7	7	10	10	5	5	9	9	4	4
10-16	8	13	4	7	5	6	4	7	2	4	2	7	4	7	14	17	4	5	9	14	13	20	15	25	11	16	10	19	8	12
17-23	8	21	9	16	14	20	6	13	12	16	10	17	10	17	20	37	16	21	19	33	19	39	24	49	20	36	9	28	15	27
24-30	10	31	10	26	14	34	19	32	19	35	24	41	17	34	16	53	11	32	21	54	20	59	24	73	18	54	16	44	17	44
Jan. 31-Feb. 6	14	45	8	34	1	35	1	33	1	36	1	42	3	37	3	56	1	33	9	63	1	60	8	81	4	58	10	54	4	48
Feb. 7-13	11	56	16	50	14	49	9	42	9	45	4	46	10	47	7	63	3	36	6	69	5	65	2	83	5	63	9	63	8	56
14-20	5	61	12	62	14	63	13	55	15	60	19	65	15	62	13	76	15	51	23	92	20	85	17	100	18	81	20	92	16	72
21-27	8	69	22	84	22	85	26	81	18	78	19	84	21	83	9	85	14	65	7	99	14	99	13	113	11	92	13	105	16	88
Feb. 28-Mar. 6	15	84	14	98	15	100	29	110	20	98	22	106	20	103	24	109	21	86	20	119	24	123	24	137	23	115	17	122	22	110
Mar. 7-13	16	100	11	109	24	124	28	138	30	128	34	140	25	128	12	121	21	107	26	145	15	138	22	159	19	134	28	148	22	132
14-20	9	109	14	123	16	140	27	165	22	150	26	166	21	149	15	136	20	127	28	173	17	155	23	182	20	154	29	177	21	153
21-27	6	115	15	138	21	161	23	188	25	175	24	190	22	171	14	150	20	147	22	195	21	176	23	205	20	174	26	203	21	174
28-Apr. 3	41	156	36	174	34	195	25	213	27	202	29	219	30	201	36	186	34	181	33	228	30	206	32	237	33	207	36	239	31	205
Apr. 4-10	39	195	39	213	40	235	30	243	31	233	31	250	34	235	35	221	39	220	29	257	21	227	24	261	30	237	31	270	32	237
11-17	25	220	32	245	27	262	33	276	28	261	29	279	30	265	22	243	23	243	24	281	25	252	31	292	25	262	28	298	27	264
18-24	61	281	41	286	38	300	42	318	41	302	50	329	43	308	51	294	48	291	39	320	45	297	40	332	44	306	36	334	44	308
25-May 1	30	311	31	317	38	338	41	359	39	341	47	376	39	347	45	339	43	334	41	361	36	333	29	361	39	345	39	373	39	347
May 2-8	32	343	48	365	47	385	49	408	47	388	50	426	48	395	34	373	43	377	43	404	30	363	33	394	37	382	47	420	43	390
9-15	27	370	36	401	43	428	51	459	44	432	53	479	45	440	46	419	48	425	46	450	26	389	33	427	40	422	65	485	42	432
16-22	86	456	68	469	70	498	81	540	82	514	78	557	76	516	90	509	93	518	80	530	93	482	87	514	88	510	65	550	82	514
23-29	40	496	34	503	40	538	36	576	44	558	44	601	40	556	48	557	58	576	51	581	52	534	53	567	52	562	41	591	46	560
May 30-June 5	53	549	42	545	41	579	36	612	35	593	36	637	38	594	42	599	41	617	64	645	46	580	47	614	48	610	56	647	43	603
June 6-12	34	583	26	571	28	607	35	647	31	624	42	679	32	626	21	620	34	651	46	691	8	588	12	626	24	634	65	712	28	631
13-19	34	617	21	592	43	650	61	708	54	678	65	744	49	675	31	651	39	690	63	754	28	616	36	662	39	673	64	776	44	675
20-26	31	648	34	626	37	687	45	753	37	715	44	788	39	714	33	684	42	732	43	797	35	651	29	691	36	709	52	828	38	713
27-July 3	31	679	37	663	28	715	37	790	35	750	41	829	36	750	29	713	36	768	54	851	12	663	26	717	32	741	47	875	34	747
July 4-10	22	701	45	708	42	757	48	838	48	798	58	887	48	798	35	748	43	811	49	900	34	697	37	754	40	781	54	929	44	791
11-17	84	785	82	790	74	831	76	914	79	877	81	968	79	877	81	829	87	898	82	982	75	772	72	826	79	860	71	1000	79	870
18-24	41	826	41	831	46	877	59	973	45	922	50	1018	48	925	39	868	41	939	26	1008	19	791	18	844	29	889	53	1053	39	909
25-31	25	851	50	881	55	932	54	1027	58	980	53	1071	54	979	42	910	49	988	49	1057	35	826	31	875	41	930	51	1104	47	956
Aug. 1-7	26	877	41	922	70	1002	72	1099	74	1054	63	1134	64	1043	48	958	64	1052	69	1126	35	861	40	915	51	981	58	1162	57	1013
8-14	19	896	33	955	41	1043	45	1144	39	1093	48	1182	41	1084	40	998	34	1086	45	1171	37	898	36	951	38	1019	56	1218	40	1053
15-21	34	930	47	1002	47	1090	48	1192	44	1137	43	1225	46	1130	40	1038	42	1128	49	1220	38	936	35	986	41	1060	43	1261	44	1097
22-28	33	963	39	1041	39	1129	38	1230	35	1172	41	1266	38	1168	35	1073	34	1162	37	1257	29	965	35	1021	34	1094	49	1310	36	1133
Aug. 29-Sept. 4	19	982	25	1066	28	1157	43	1273	33	1205	43	1309	34	1202	25	1098	32	1194	41	1298	30	995	33	1054	32	1126	43	1353	33	1166
Sept. 5-11	43	1025	39	1105	26	1183	36	1309	33	1238	29	1338	33	1235	45	1143	39	1233	35	1333	54	1049	41	1095	43	1169	31	1384	38	1204
12-18	19	1044	27	1132	32	1215	22	1331	23	1261	39	1377	28	1263	29	1172	31	1264	43	1376	24	1073	43	1138	34	1203	46	1430	31	1235
19-25	24	1068	30	1162	32	1247	41	1372	38	1299	33	1410	35	1298	30	1202	33	1297	24	1400	18	1091	26	1164	26	1229	22	1452	31	1266
26-Oct. 2	18	1086	21	1183	24	1271	21	1393	24	1323	29	1439	24	1322	26	1228	27	1324	32	1432	24	1115	25	1189	27	1256	29	1481	25	1291
Oct. 3-9	16	1102	30	1213	22	1293	33	1426	38	1361	41	1480	33	1355	26	1254	26	1350	32	1464	19	1134	30	1219	27	1283	44	1525	30	1321
10-16	13	1115	22	1235	28	1321	24	1450	20	1381	23	1503	23	1378	24	1278	15	1365	16	1480	18	1152	21	1240	19	1302	16	1541	21	1342
17-23	34	1149	31	1266	31	1352	29	1479	28	1409	31	1534	30	1408	27	1305	32	1397	28	1508	27	1179	45	1285	32	1334	26	1567	31	1373
24-30	32	1181	17	1283	22	1374	34	1513	19	1428	36	1570	26	1434	22	1327	27	1424	20	1528	12	1191	16	1301	19	1353	28	1595	23	1396
Oct. 31-Nov. 6	24	1205	10	1293	4	1378	15	1528	13	1441	24	1594	13	1447	17	1344	23	1447	20	1548	19	1210	27	1328	21	1374	26	1621	17	1413
Nov. 7-13	4	1209	4	1297	1	1379	1	1529	2	1443	6	1600	3	1450	3	1347	5	1452	5	1553	9	1219	14	1342	7	1381	14	1635	5	1418
14-20	5	1214	11	1308	12	1391	20	1549	14	1457	13	1613	14	1464	11	1358	13	1465	15	1568	9	1228	15	1357	13	1394	15	1650	14	1432
21-27	2	1216	8	1316	9	1400	6	1555	6	1463	8	1621	7	1471	6	1364	6	1471	3	1571	10	1238	11	1368	7	1401	16	1666	7	1439
Nov. 28-Dec. 4	8	1224	10	1326	11	1411	13	1568	15	1478	20	1641	14	1485	16	1380	12	1483	18	1589	17	1255	19	1387	16	1417	13	1679	15	1454
Dec. 5-11	1	1225	6	1332	7	1418	10	1578	9	1487	13	1654	9	1494	5	1385	6	1489	13	1602	8	1263	16	1403	10	1427	16	1695	10	1464
12-18	6	1231	8	1340	3	1421	11	1589	10	1497	14	1668	9	1503	5	1390	9	1498	15	1617	11	1274	14	1417	11	1438	16	1711	10	1474
19-25	6	1237	10	1350	7	1428	12	1601	11	1508	24	1692	13	1516	7	1397	14	1512	19	1636	13	1287	13	1430	13	1451	27	1738	13	1487
Dec. 26-Jan 1/98	2	1239	3	1353	4	1432	6	1607	7	1515	4	1696	5	1521	4	1401	7	1519	11	1647	10	1297	11	1441	9	1460	12	1750	7	1494

TABLE VI.—SHOWING THE WEEKLY AND PROGRESSIVE VALUES FOR THE PERCENTAGES OF THE POSSIBLE DURATION OF BRIGHT SUNSHINE IN EACH DISTRICT WHICH WAS ACTUALLY RECORDED DURING THE YEAR 1897.

DATE. — LIMITS OF WEEKS.	Principal Wheat-producing Districts.														Principal Grazing, &c. Districts.												Channel Islands.		Means for the British Islands generally.	
	0. Scotland, N.		1. Scotland, E.		2. England, N.E.		3. England, E.		4. Midland Counties.		5. England, S.		Means for Wheat Producing Districts.		6. Scotland, W.		7. England, N.W.		8. England, S.W.		9. Ireland, N.		10. Ireland, S.		Means for Grazing, &c. Districts.					
	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.	Weekly.	From Jan. 3/97.
	Percentages of Possible Duration.																													
1897.																														
Jan. 3-9	11	11	6	6	1	1	6	6	3	3	9	9	5	5	6	6	3	3	9	9	13	13	18	18	10	10	15	15	8	8
10-16	16	14	8	7	9	6	7	7	4	4	3	6	6	6	26	17	8	4	16	13	24	19	28	24	21	15	17	13	14	11
17-23	16	15	18	11	25	13	11	8	22	19	17	10	19	12	36	24	28	16	31	19	30	25	41	30	33	23	14	11	26	18
24-30	18	16	18	13	23	16	31	14	31	16	39	18	28	15	28	25	19	18	34	23	34	28	40	33	31	25	26	14	30	20
Jan. 31-Feb. 6	24	18	13	13	1	13	1	12	2	12	1	14	4	13	5	21	2	14	14	22	2	22	13	29	7	22	15	14	5	18
Feb. 7-13	18	18	25	16	21	14	14	12	14	13	6	13	16	14	10	19	5	13	9	19	8	19	3	24	7	19	13	14	12	17
14-20	7	16	18	16	21	16	19	13	21	14	28	15	21	15	20	19	22	15	32	21	29	21	24	24	25	20	41	19	23	18
21-27	12	16	31	19	30	18	35	17	25	16	26	17	29	17	13	19	20	15	10	20	20	21	18	23	16	20	18	19	23	19
Feb. 28-Mar. 6	17	16	18	19	20	19	39	20	27	17	29	19	27	19	33	20	28	17	27	21	32	23	32	25	30	21	26	20	29	20
Mar. 7-13	21	17	14	18	30	20	35	22	38	20	43	22	32	20	15	20	26	18	33	22	19	22	28	25	24	21	33	22	28	21
14-20	11	16	17	18	19	20	33	23	27	21	31	23	25	21	18	20	24	18	34	24	20	22	27	26	25	22	34	24	25	22
21-27	7	15	18	18	25	21	27	24	29	22	28	23	25	22	16	20	23	18	26	24	24	23	27	26	23	22	31	25	24	22
28-April 3	45	19	40	21	37	22	29	24	30	23	32	24	34	23	41	22	38	21	37	25	33	24	36	27	37	24	41	27	36	24
April 4-10	41	21	42	23	43	25	33	25	34	24	34	25	37	24	37	23	41	23	32	26	23	24	26	27	32	25	34	27	35	25
11-17	25	22	33	24	28	25	34	26	30	24	30	26	31	25	23	23	24	23	25	26	27	24	32	27	27	25	29	28	29	25
18-24	60	25	41	25	38	26	42	27	41	26	51	28	43	26	51	25	48	25	40	27	45	26	41	29	45	26	37	29	44	26
25-May 1	28	25	30	26	37	27	40	28	38	27	47	29	39	27	44	27	42	26	41	28	35	27	28	29	38	27	39	30	38	27
May 2-8	29	26	45	27	44	28	46	30	44	28	47	31	45	29	32	27	40	27	42	29	28	27	31	29	35	28	46	32	40	29
9-15	24	26	32	28	39	29	48	31	41	29	50	32	42	30	42	29	44	28	43	30	24	27	31	29	37	28	62	34	40	29
16-22	74	29	59	30	62	32	74	34	74	33	72	35	68	33	79	32	83	32	74	34	83	31	78	33	79	32	60	35	74	33
23-29	31	30	28	30	36	32	32	34	39	33	40	35	35	33	42	33	51	34	46	34	46	32	47	34	46	33	37	35	41	33
May 30-June 5	44	31	35	30	35	32	32	34	31	33	32	35	33	33	35	33	35	34	57	36	39	32	41	34	41	34	51	35	37	34
June 6-12	27	31	22	30	24	32	27	34	27	33	37	35	27	33	18	32	29	34	41	36	7	31	11	33	21	33	59	37	24	33
13-19	28	30	17	29	36	32	53	35	47	34	57	36	42	33	26	32	33	33	56	37	24	30	31	33	34	33	57	38	38	33
20-26	25	30	28	29	31	32	39	35	32	33	38	37	34	33	28	31	35	33	38	37	30	30	24	32	31	33	46	39	33	33
27-July 3	25	30	30	29	24	32	32	35	30	33	36	36	30	33	25	31	31	33	48	38	10	29	22	32	27	33	42	39	29	33
July 4-10	18	29	38	30	35	32	42	35	42	34	51	37	42	34	29	31	37	33	43	38	29	29	32	32	34	33	49	40	38	34
11-17	70	31	69	31	66	33	68	37	70	35	73	39	69	35	70	33	75	35	74	40	66	31	64	33	70	34	65	41	70	35
18-24	34	31	35	32	41	34	53	37	40	36	46	39	43	36	34	33	36	35	24	39	17	30	16	32	25	34	49	41	34	35
25-31	22	31	44	32	50	34	50	38	54	36	49	40	49	36	38	33	45	35	46	39	32	30	28	32	38	34	48	42	44	35
Aug. 1-7	24	31	37	32	65	35	68	39	69	37	60	40	60	37	44	33	59	36	66	40	33	30	37	32	48	34	56	42	54	36
8-14	18	30	31	32	40	35	44	39	38	37	47	40	40	37	38	33	33	36	44	40	35	31	34	32	37	34	55	43	39	36
15-21	33	30	46	33	46	36	48	39	44	38	43	41	45	37	39	34	41	36	49	40	38	31	35	33	40	35	42	43	42	36
22-28	33	30	39	33	40	36	40	39	36	37	43	41	40	37	35	34	35	36	38	40	30	31	36	33	35	35	51	43	38	36
Aug. 29-Sep. 4	20	30	26	33	30	35	45	40	35	37	46	41	36	37	26	33	33	36	44	40	32	31	35	33	34	35	46	43	35	36
Sept. 5-11	46	30	43	33	28	35	40	39	36	37	32	40	36	37	49	34	43	36	39	40	59	31	43	33	46	35	35	43	41	36
12-18	21	30	31	33	37	35	25	39	26	37	45	40	33	37	32	33	35	36	49	41	27	31	48	33	38	35	53	43	36	36
19-25	28	30	36	33	38	35	49	39	45	37	40	40	42	37	35	33	39	36	29	40	22	31	30	33	31	35	26	43	36	36
26-Oct. 2	22	30	26	33	29	35	26	39	29	37	36	40	29	37	32	33	33	36	40	40	29	31	31	33	33	35	35	42	31	36
Oct. 3-9	21	30	39	33	28	35	42	39	49	37	52	40	42	37	34	33	33	35	42	40	25	31	38	33	34	34	55	43	38	36
10-16	18	29	31	33	38	35	32	39	27	37	30	40	32	37	33	33	21	35	21	40	25	31	29	33	26	34	21	42	29	36
17-23	50	30	45	33	44	35	41	39	40	37	43	40	43	37	39	33	46	35	39	40	39	31	64	34	45	35	37	42	44	36
24-30	60	30	26	33	33	35	50	39	28	37	53	40	38	37	34	33	39	35	29	39	18	31	23	33	28	34	41	42	33	36
Oct. 31-Nov. 6	40	30	17	32	7	34	23	39	20	36	37	40	21	36	27	33	36	35	31	39	29	30	42	34	33	34	39	42	27	35
Nov. 7-13	6	30	6	32	1	34	2	38	3	36	10	40	4	36	6	32	8	35	9	39	15	30	22	33	12	34	21	42	8	35
14-20	8	29	20	32	21	34	33	38	23	36	21	40	24	36	20	32	22	35	24	39	17	30	25	33	22	34	24	42	23	35
21-27	4	29	15	32	16	33	10	38	11	35	14	39	13	35	11	32	11	34	5	38	18	30	19	33	13	33	26	42	13	34
Nov. 28-Dec. 4	17	29	20	31	21	33	24	37	26	35	36	39	25	35	30	32	23	34	32	38	32	30	34	33	30	33	23	41	28	34
Dec. 5-11	2	29	12	31	14	33	18	37	16	35	24	39	17	35	11	32	11	34	23	38	16	30	30	33	18	33	28	41	18	34
12-18	12	28	18	31	6	33	20	37	19	35	27	39	18	35	10	31	17	34	27	38	21	30	27	33	20	33	30	41	19	34
19-25	15	28	21	31	14	32	23	37	21	35	45	39	25	35	14	31	27	34	36	38	26	30	25	33	26	33	47	41	26	34
Dec. 26-Jan. 1/98	4	28	6	30	8	32	12	36	14	34	7	38	9	34	8	31	13	34	19	37	19	29	22	33	16	33	22	41	13	34